

SISWATI MATHEMATICS

National Curriculum Statement (NCS)

*Curriculum and Assessment
Policy Statement*

CAPS

STRUCTURED. CLEAR. PRACTICAL

HELPING TEACHERS UNLOCK THE POWER OF NCS

*Foundation Phase
Grade R*



basic education

Department:
Basic Education
REPUBLIC OF SOUTH AFRICA



basic education

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Basic Education
REPUBLIC OF SOUTH AFRICA

**SITATIMENDE SENCHUBOMGOMO YEKHARIKHULAMU
NEKUHLOLA**

EMABANGA R

TIBALO

TIBALO LIBANGA R

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FOREWORD BY THE MINISTER



Our national curriculum is the culmination of our efforts over a period of seventeen years to transform the curriculum bequeathed to us by apartheid. From the start of democracy we have built our curriculum on the values that inspired our Constitution (Act 108 of 1996). The Preamble to the Constitution states that the aims of the Constitution are to:

- heal the divisions of the past and establish a society based on democratic values, social justice and fundamental human rights;
- improve the quality of life of all citizens and free the potential of each person;
- lay the foundations for a democratic and open society in which government is based on the will of the people and every citizen is equally protected by law; and
- build a united and democratic South Africa able to take its rightful place as a sovereign state in the family of nations.

Education and the curriculum have an important role to play in realising these aims.

In 1997 we introduced outcomes-based education to overcome the curricular divisions of the past, but the experience of implementation prompted a review in 2000. This led to the first curriculum revision: the *Revised National Curriculum Statement Grades R-9* and the *National Curriculum Statement Grades 10-12* (2002).

Ongoing implementation challenges resulted in another review in 2009 and we revised the *Revised National Curriculum Statement* (2002) and the *National Curriculum Statement Grades 10-12* to produce this document.

From 2012 the two National Curriculum Statements, for *Grades R-9* and *Grades 10-12* respectively, are combined in a single document and will simply be known as the *National Curriculum Statement Grades R-12*. The *National Curriculum Statement for Grades R-12* builds on the previous curriculum but also updates it and aims to provide clearer specification of what is to be taught and learnt on a term-by-term basis.

The *National Curriculum Statement Grades R-12* represents a policy statement for learning and teaching in South African schools and comprises of the following:

- (a) Curriculum and Assessment Policy Statements (CAPS) for all approved subjects listed in this document;
- (b) *National policy pertaining to the programme and promotion requirements of the National Curriculum Statement Grades R-12*; and
- (c) *National Protocol for Assessment Grades R-12*.

A handwritten signature in black ink, appearing to read "Motsepe".

MRS ANGIE MOTSHEKGA, MP
MINISTER OF BASIC EDUCATION

TIBALO LIBANGA R

SITATIMENDE SENCHUBOMGOMO YEKHARIKHULAMU NEKUHLOLA (SISEYENE)

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SIBANGA 1: ISINGENISO NESENDLALELO

1.1 SENDLALELOLWATI

Sitatimende seKharikhulamu yaVelonkhe emaBanga R-12 (i-NCS) sinika inchubomgomo yekharikhulamu nekuhlola etikolweni.

Kute kwentiwe ncono kusebenta kwaso leSitatimende seKharikhulamu yaVelonkhe sichtjiyelwe, kwentelwa kutsi letichibiyelo ticale kusebenta ngaBhimbidvwane 2012. Kwakhiwe umculu munye weNchubomgomo yeKharikhulamu neKuhlola kwaleso naleso sifundvo lotawusebenta esikhundleni seTitatimende Tetifundvo, Ticondziso Tetinhlelo Tekufundza neTicondziso Tekuhlolwa Kwetifundvo kumaBanga R-12.

1.2 SIBUTSETELO

- (a) *LeSitatimende seKharikhulamu Savelonkhe emaBanga R-12 (Bhimbidvwane 2012) simele sitatimende senchubomgomo yekufundza nekufundzisa etikolweni taseNingizimu Afrika, kantsi sicuketse loku lokulandzelako:*
 - (i) Sitatimende seNchubomgomo yeKharikhulamu neKuhlola leso naleso sifundvo lesisemtsetfweni;
 - (ii) Umculu wenchubomgomo i-National policy pertaining to the programme and promotion requirements of the National Curriculum Statement Grades R-12 kanye
 - (iii) Nemculu wenchubomgomo, i-National Protocol for Assessment Grades R-12 (Bhimbidvwane 2012).
- (b) *LeSitatimende seKharikhulamu yaVelonkhe emaBanga R-12 (Bhimbidvwane 2012) singena esikhundleni saleTitatimende teKharikhulamu yaVelonkhe letimbili lekungito letisebenta nyalo, letatiwa ngekutsi:*
 - (i) *Sitatimende Lesibuketiwe seKharikhulamu yaVelonkhe emaBanga R-9 lesishicilelw kuGazethi yaHulumende nombolo 23406 mhlaka - 31 Inkhwekhweti 2002, kanye ne-*
 - (ii) *Sitatimende seKharikhulamu yaVelonkhe emaBanga 10-12 lesishicilelw kuGazethi yaHulumende Nombolo 25545 mhlaka - 6 Imphala 2003 kanye nakuGazethi yaHulumende Nombolo 27594 mhlaka - 17 Inkhwekhweti 2005.*
- (c) Letitatinende tekharikhulamu yavelonkhe letibekwe ngalokucacile endzinyaneni (b) (i) na (ii) ngenhla tifaka ekhatsi letinchubomgomo letilandzelako lokutawuya ngekuya kwandze kutikhweshisela eceleni *Sitatimende seKharikhulamu yaVelonkhe emaBanga R-12 (Bhimbidvwane 2012)* emkhatsini waleminyaka 2012-2014:
 - (i) Titatimende teTinkhundla teKufundza,/teTifundvo, Ticondziso Tetinhlelo Tekufundza neTicondziso Tekuhlolwa kweTifundvo temaBanga R-9 nemaBanga R-12 ;
 - (ii) Umculu wenchubomgomo, i-National Policy on Assessment and Qualifications for schools in the General Education and Training Band, Ieyashicilelw emculwini weSatiso saHulumende Nombolo 124 kuGazethi yaHulumende Nombolo 29626 yashicilelw mhlaka-12 Indlovana 2007.
 - (iii) Umculu wenchubomgomo, i-National Senior Certificate: A qualification at Level 4 on the National Qualifications Framework (NQF), Ieyashicilelw kuGazethi yaHulumende Nombolo 27819 mhlaka 20 Kholwane 2005;

- (iv) Umculu wenchubomgommo, *An addendum to the policy document, the National Senior Certificate: A qualification at Level 4 on the National Qualifications Framework (NQF), regarding learners with special needs, Ieyashicilelwa kuGazethi yaHulumende Nombolo 29466 mhlaka-11 Ingongoni 2006*, ifakwe kumculu wenchubomgommo, *i-National policy pertaining to the programme and promotion requirements of the National Curriculum Statement Grades R-12*; kanye ne-
- (v) Umculu wenchubomgommo, *An addendum to the policy document, the National Senior Certificate: A qualification at Level 4 on the National Qualifications Framework (NQF), regarding the National Protocol for Assessment (Grades R-12)*, leshicilelwe emculwini weSatiso saHulumende Nombolo 1267 kuGazethi yaHulumende Nombolo 29467 mhlaka-11 Ingongoni 2006.
- (d) Umculu wenchubomgommo, *i-National policy pertaining to the programme and promotion requirements of the National Curriculum Statement Grades R-12*, netigaba teSitatimende seNchubomgommo yeKharikhulamu nekuHlola njengobe tibukisisiwe kuTehluko 2, 3 na-4 talomculu, leticuketse timiso nemigomo yeSitatimende seKharikhulamu yaVelonkhe emaBanga R-12. Ngako-ke, kutawutsi *ngekwesigaba 6A semtsetfo i-South African Schools Act, 1996 (Act No. 84 wa-1996)* Indvuna Yetemfundvo Lesisekelo ikwati kubona bungako bemiphumela nemacophelo kanye netindlela netinchubo tekuhlola imphumelelo yemfundzi etikolweni tembuso naletlo letitimele.

1.3 TINHLOSOJIKELELE TEKHARIKHULAMU YASENINGIZIMU AFRIKA

- (a) *Sitatimende seKharikhulamu Yavelonkhe emaBanga R-12* sinika inchazelo yaloko lokumele kufundvwe etikolweni taseNingizimu Afrika ngalokuphatselene nelwati, emakhono nemagugu ekuphila. Lekharikhulamu itawucinisekisa kutsi bafundzi batfola babuye basebentise Iwati nemakhono ngetindlela letitawubonakala etimphilweni tabo. Ngaloko-ke lekharikhulamu igcugcutela Iwati ngesimongcondvo semmango wangakubo, ibe icikelela loko lokumcoka lokwentiwa emhlabeni jikelele.
- (b) *Sitatimende seKharikhulamu yaVelonkhe emaBanga R-12* siphumelelisa letinhloso letilandzelako:
- kuhlomisa bafundzi ngelwati, emakhono nemagugu ekuphila lafanele, kute banetiseke baphindze babambe lichaza emmangweni njengetakhamuti telive lelikhululekile. Loku kutawentiwa ngaphandle kwekunaka simonhlalo setemnotfo, buve, bulili, simo semtimba, nobe likhono lekuhlakanipa labanalo;
 - kutsi batfole imfundvo lephakeme;
 - kulungiselela bafundzi kutsi bakwati kumela timo letehlukile kuleto tasetikolweni temfundvo lephakeme naletlo tasemsebentini; kanye
 - nekunika bacashi imininingwane leyenele mayelana nemakhono ebafundzi.
- (c) *Sitatimende seKharikhulamu yaVelonkhe emaBanga R-12* senganyelwe ngulemigomo lelandzelako:
- Ingucuko kutenhlalo: kucinisekisa kutsi kungafani kwemfundvo lokwakwentiwa esikhatsini lesengca kuyalungiswa, nekutsi tonkhe takhamuti titfola ematfuba emfundvo lalinganako kuto tonkhe tigaba.
 - Kufundza gekutimisela nangalokujulile: kugcugcutela tindlela tekufundza ngekutimisela nangalokujulile kunekutsi bafundze ngekuhlabelela ngaphandle kwekuvisisa loko labafundziswa kona.

- Lwati lolusetulu nemakhono lasetulu: linanincane lemacophelo elwati nemakhono lekumele azuzwe kulelo nalelo Banga amisiwe abuye abekwa ezingeni lelisetulu lekungenteka kutsi azuzwe bafundzi kuto tonkhe tifundvo.
 - Inchubekelembili: lokucuketfwe kanye nesimongcondvo saleso naleso sifundvo kukhombisa inchubekelembili kusuka kulokulula kufika kulokulukhuni.
 - Emalungelo ebantfu, khukhulelangoco, bulungiswa betemvelo netenhlalo: kungeniswa kwemitsetfomgommo nenchubo yebulungiswa betenhlalo netemvelo kanye nemalungelo ebantfu njengekubekwa kweMtsetfosisekelo waseNingizimu Afrika. *Sitatinende seKharikhulamu yaVelonkhe emaBanga R-12 (Jikelele)* sibonisa luvelo esimeni sekwehlukahlukana njengebuphuya, kungalingani, buve, bulili, lulwimi, budzala, kukhubateka, naletinye timo.
 - Kuhlonipha lwati lwendzabuko: kwemukela umlandvo lonotsile nemagugu emdzabu alelive lokungito tintfo letibalulekile ekuphumeleiseni emagugu ekuphila lamiswe kuMtsetfosisekelo; kanye ne-
 - Kwetsembeka, lizinga lelifanele, nelikhono lekwenta: kunika imfundvo lenelizinga lelicatsanisekako neyalamanye emave ngebubanti nangekujula.
- (d) *Sitatinende seKharikhulamu yaVelonkhe emaBanga R-12* sihlose kukhicia bafundzi labakhona ku-
- bona nekusombulula tinkinga bese batsatsa tincumo ngekutakhela imicabango lejulile
 - sebenta ngekubambisana nalabanye njengelilunga lelicembu, lenhlangano nelemmango ngemphumelelo;
 - hlelembisa, nekutiphatsa ngalokunetibopho kuko konkhe labakwentako ngendlela lenemphumelelo;
 - gcogca, hlatiya, hlela nekuhlola lwati ngalokujulile
 - chumana ngemphumelelo ngekusebentisa tibonwa, timphawu ne /nobe bugagu bekusebentisa lulwimi ngetindlela letinyenti;
 - sebentisa isayensi nebuchwepheshe ngemphumelelo nangalokujulile bakhombise kutibophelela kutendzawo netemphilo yalabanye; kanye neku-
 - khombisa kuvisisa umhlaba njengeluchungechunge lwetehlakalo ngekubona kutsi timongcondvo tekusonjululwa kwetinkinga atihambi todvwa.
- (e) *Khukhulelangoco* kufanele kube ngiyo inceny lemcoka kulomkhakha, ngekuhlela nekufundzisa kuleso naleso sikolo. Loku kungenteka kuphela uma bonkhe bafundzisi bangaba nekuvisisa ngalokujulile indlela yekubona tihibe tekufundza kanye nendlela yekutivikela kanye nendlela yekuhlelela kwehlukahlukana.

Lokuhamba embili ekulawuleni khukhulelangoco kwenta sicciseko sekutsi tihibe tibonwe, kuliwe nato, kuto tonkhe tinhlaka tekwesekela ummango wesikolo, lokufaka ekhatsi bafundzisi, Emacembu Ekwesekela Latinte Etigodzini (*District-based*), Emacembu laSesigabeni Sekwesekela Tikhungo, batali, kusettentiswe Tikolo Letikhetskile kutsi tibe Tikhungo letinguMtomblo welusito. Nangabe bafundzisi bafuna kulwa netihibe eklasini bafanele basebentise emasu lehlukene ekwehlukanisa iKharikhulamu, Iafana nalawo latfolakala emculwini weLitiko Letemfundvo Lesisekelo lowatiwa ngekutsi *i-Guidelines for Inclusive Teaching and Learning (2010)*.

TIBALO LIBANGA R

1.4 KWABIWA KWESIKHATSI

1.4.1 Sigaba Sabokhewane

- (a) Sikhatsi sekufundzisa tifundvo eSigabeni saboKhewane sendlalwe kulelithebula lelingentasi:

SIFUNDVO	LIBANGA R (EMA-AWA)	LIBANGA 1-2 (EMA-AWA)	LIBANGA 3 (EMA-AWA)
Lulwimi Lwasekhaya	10	7/8	7/8
Lulwimi Lwekucala Lwekwengeta		2/3	3/4
Tibalo	7	7	7
Emakhono eKuphila	6	6	7
• Lwatinchanti	(1)	(1)	(2)
• Tebuciko Bekuticambela	(2)	(2)	(2)
• Sifundvo Sekutivocavoca	(2)	(2)	(2)
• Sifundvo Senhlalomphilo lenhle	(1)	(1)	(1)
SAMBA	23	23	25

- (b) Sikhatsi sekufundzisa emaBanga R, 1 na 2 ngema-awa lange-23. Libanga 3, ngema-awa lange-25.
- (c) Etilwimini, lishumi (10) lema-awa labelwe emaBanga R-2, ema-awa la-11 abelwa liBanga lesitsatfu (3). Linanikhulu lema-awa lasiphohlongo (8) nelinanincane lema-awa lasikhombisa (7) abelwe Lulwimi Lwasekhaya, kwatsi linanincane lema-awa lama-2 nelinanikhulu lema-awa lamatsatfu (3) abelwa Lulwimi Lwekucala Lwekwengeta emaBangeni 1-2. Ebangeni lesitsatfu (3) linanikhulu lema-awa lasiphohlongo (8) nelinanincane lema-awa lasikhombisa (7) abelwe Lulwimi Lwasekhaya, nelinanincane lema-awa lamatsatfu (3) nelinanikhulu lema-awa lamane (4) abelwa Lulwimi Lwekucala Lwekwengeta.
- (d) Esifundvweni Semakhono Ekuphila Lwatinchanti lwabelwe li-awa linye (1) emaBanga R - 2, kantsi Libanga le-3 lona labelwe ema-awa lamabili (2) lokungawo lafakwe kubakaki.

1.4.2 Sigaba Lesisemkhatsini

- (a) Sikhatsi sekufundzisa Esigabeni Lesisemkhatsini simiswe ngalendlela lelandzelako:

SIFUNDVO	EMA-AWA
Lulwimi Lwasekhaya	6
Lulwimi Lwekucala Lwekwengeta	5
Tibalo	6
Isayensi yeTemvelo neThekhnoloji	3,5
Isayensi yeTehnlalo	3
Emakhono eKuphila	4
• Tebuciko Bekuticambela	(1,5)
• Sifundvo Sekutivocavoca	(1)
• Sifundvo Senhlalomphilo lenhle	(1,5)
SAMBA	27,5

1.4.3 Sigaba Lesiphakeme

- (a) Sikhatsi sekufundzisa Sigaba Lesiphakeme sime ngalendlela lelandzelako

SIFUNDVO	EMA-AWA
Lulwimi Lwasekhaya	5
Lulwimi Lwekucala Lwekwengeta	4
Tibalo	4,5
Isayensi yeTemvelo	3
Isayensi yeTenhlalo	3
Ithekhnoloji	2
Isayensi YekuphatsaTemnotfo	2
Tekuphila	2
Buciko bekuticambela	2
SAMBA	27,5

1.4.4 EmaBanga 10-12

- (a) Sikhatsi sekufundzisa emaBanga 10-12 sihleleke ngalendlela lelandzelako:

SIFUNDVO	KWABIWA KWESIKHATSI NGELIVIKI (EMA-AWA)
Lulwimi Lwasekhaya	4.5
Lulwimi Lwekucala Lwekwengeta	4.5
Tibalo	4.5
Tekuphila	2
Linanincane lanobe ngutiphi tifundvo letintsatfu latikhetsile Ecenjini B <u>Sichibiyelo B, Emathebula B1-B8</u> emculwini wenchubomgommo, i-National policy pertaining to the programme and promotion requirements of the National Curriculum Statement Grades R-12, lokutawuya ngekwetimiso letibekwe endzimeni 28 yalomculu wenchubomgommo loshiwo ngenhla	12 3x4 ema-awa

Sikhatsi lesibekelwe liviki ngalinye simiselwe kutsi sisetjentiselwe kuphela ngekwelinanincane kuleto tifundvo letibalwe ku-NCS njengobe kushiwo lapha ngenhla, empeleni akukafaneli kutsi sisetjentiselwe kufundzisa nobe ngutiphi tifundvo letengetiwe kuloluhla lwelinanincane letifundvo. Nangabe kwenteka kutsi umfundzi afise kwenta tifundvo letengetiwe, kumele kwengetwe sikhatsi sekwenta leto tifundvo.

2.1 SINGENISO

Kusahluko 2, Sitatimende Senchubomgommo Yavelonkhe Yekharikhulamu Nekuhlolola yeSigaba Sabokhewane inika bothishela inchazelo yetibalo, tinhlosongco, emakhonongco, imikhakha yalokucuketfwe lekugcilwe kuyo, sisindvo semikhakha yalokucuketfwe, tinsita letiphakanyisiwe tetifundvo teTibalo teSigaba Sabokhewane, ticondziso letiphakanyisiwe tekusekela bafundzi labahlangabetana netihibe ekufundzeni-tibalo, tibalo tenhloko nekugcugcutela emakhono etibalo ebangeni R.

2.2 TIYINI TIBALO?

Tibalo lulwimi lolusebentisa timphawu netinkhomba kuchaza budlelwane betinombolo, be-Jomethri nemagrafu. Ngulokwentiwa bantfu lokufaka kubuka, kumela nekuphenya emaphethini nebunjalo bebudlelwane besimo semtimba nesimonhlalo emkhatsini wetintfo tetibalo ngekwato. Kuyasita kutfutfukisa inchubo yengcondvo lengeta kucabanga lokuhlelekile nalokuhlolisako, lokucikelelako nalokucatulula inkinga lengasita ekutsatseni tincumo.

2.3 TINJONGONGCO

Kufundzisa nekufundza Tibalo kuhlose kutfutfukisa loku lokulandzelako kumfundzi:

- Kwati kabanti kutsi budlelwane beTibalo busetjentiswa njani tikwebudlelwane betenhlalo; temvelo, emasiko kanye netemnotfo.
- Kuba nekutetsema kubukana netimo tetibalo ngaphandle kwekwesaba kuhlulwa tibalo;
- Kuba nemoya wekufuna kwati nekutsandza Tibalo;
- Kubona buhle beTibalo;
- Kwati kutsi Tibalo tiyincenyemsebenti webantfu wekusungula;
- Kuba nelwati lolujulile lwekuvisisa tibalo;
- Kutfola lwati ngco nemakhono lafanele ku:
 - sebentisa Tibalo etinkingeni letiphatselene netemtimba, tenhlalo neTibalo.
 - fundza lokuphat selene naletinye tifundvo;
 - chubeka netifundvo teTibalo.

2.4 EMAKHONONGCO

Kutfutfukisa emakhono eTibalo labalulekile umfundzi kufanele:

- atfutfukise kusebenta lokungiko kwelulwimi lwetibalo;
- atfutfukise silulumagama setinombolo, lwati wetinombolo, kubala nemakhono ekutisebentisa tinombolo;
- afundze kulalela, kuchumana, kucabanga nekucabangisia lokuhlelekile nekusebentisa lwati lwetibalo lolut-folakele;

- afundze kucwaninga, kuhamatiya, kubhala nekuhumusha lwati;
- afundze kwetfula nekucatulula tinkinga tetibalo;
- abone kubaluleka kwendzima ledlalwa Tibalo emphilweni kufaka ekhatsi kututufuka kwemfundzi loku-condzene naye.

2.5 IMIKHAKHA YALOKUCUKETFWE LEKUTAWUGCILWA KUKO

Tibalo teSigaba Sabokhewane ticuketse tihloko letisihlanu. Sihloko ngasinye sisita ekutfoleni emakhono latsite. Lithebula lelingentasi likhombisa lokutawugcila kuko lokuphat selene nemikhakha yalokucuketfwe kanye nemcondvojikelele nemcondvongco walokutawufundzisa nalekufanele kugcila kuko eSigaben Sabokhewane.

Lithebula 2.1 Imikhakha yalokucuketfwe yetibalo teSigaba Sabokhewane

LWATI LOLUCUKETFWE LWETIBALO		
Imikhakha yolokucuketfwe	Imicondvo jikelele lokugcila kuyo	Lokucuketfwe lokutawugcila kuko esigaben sabokhewane
Tinombolo, timphawu tekubala nebuldelelwan	<p>Kututufukisa lokuphat selene netinombolo kufaka loko lokulandzelako:</p> <ul style="list-style-type: none"> Kutsi tinombolo letehlukene tisho kutsini; Kutsi tinombolo letehlukene tihlobene njani; Bukhulu betinombolo letehlukene; Kutsi tinombolo tingakhonjisa njani ngetindlela letehlukene Umtselela wekusebenta ngetinombolo. 	<p>Linani letinombolo lekumele libe litutufukile ekupheleni kweliBanga 3 lifaka ekhatsi tinombolo letiphelele letifika kulokungenani ku-1000 netincetu letetayelekile.</p> <p>Kulesigaba, lwati lwetinombolo lututufukisa ngekusebenta ngetintfo lucobo lwato kubala tintfo leticokelelwe, kuhluhanisa nekuhlanganisa linani, kubala ngekweca ngetindlela letinyenti, kusombulula tibalo temagama, kwakha nekubhidita tinombolo</p> <ul style="list-style-type: none"> Kubala kututufukisa lwati lwetinombolo, tibalo tenhloko, kucombela, emakhono ekubala nekubona emaphethini. Kututufuka kwelwati lwetinombolo kusita bafundzi kutsi bafundze ngetimphawu tetinombolo nekututufukisa emasu langenta kubala kuba malula. Kusombulula tinkinga tetibalo ngekwengcikitsi kusita bafundzi kutsi bachumanise lebakucabangako ngemlomo nangekubhala ngemidvwebo nangetimphawu Bafundzi bavisia timphawu tekubala letisisekelo: kuhlanganisa, kususa, kuhindzaphindza nekuhluhanisa. Lwati lwetincetu lututufukisa ngekusombulula tinkinga tetibalo letifaka kwabelana tintfo lucobo nangekusebenta imidvwebo. Tinkinga tetibalo kufanele tibe netisombululo letitinombolo letiphelele, tinsalela noma tincetu. Kwabelana kufaka ekhatsi kubona incenyeyalokuphelele kanye nekutfolo tincenyeyetintfo letigcogiwe. Bafundzi balesigaba abakafaneli kufundza nekubhala timphawu tetincetu.

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Emaphethini, emafangishini ne-Algebra	<p>I-Algebra lulwimi lwekucubungula nekuchumanisa lokunyenti kweTibalo ingasetjentiswa futsi kufundza imisebenti nalobunye budlelwane emkhatsini wetinombolo. Ingcikitsi yalokutawufundwa kutsi bafundzi bagogodze emakhono abo ekusebentisa i-Algebra. Ibuye igcile:</p> <ul style="list-style-type: none"> • Kuchaza emaphethini nebudlelwane ngekusebentisa kuvetwa kwetimphawu, emagrafu nemathebula. • Kubona nekuhlatiya kuntjintja kwemaphethini nebudlelwane lobenta bafundzi bakwati kucombeala nekusombulula tinkinga tetibalo. 	<p>Kulesigaba bafundzi basebenta ngaloku lokubili</p> <ul style="list-style-type: none"> • Emaphethini etinombolo (sib. Kubala wece) • Emaphethini e-Jomethri (sib. Titfombe) <p>Bafundzi kufanele basebentise tintfo cobo, imidvwebo netimpawu kutsatsela, kuneta, kuchaza nekwakha emaphethini.</p> <p>Kutsatsela emaphethini kusita bafundzi kutsi babone indlela leyakheke ngayo iphethini</p> <p>Kuneta iphethini kusita umfundzi kutihlola kutsi uvisise kahle kulandzelana kwephethini.</p> <p>Kuchaza iphethini kusita kutufukisa emakhono elulwimi lwemfundzi.</p> <p>Kugcila ekulandzelaneni kwemaphethini kwenta sisekelo sekutfufuka kwemakhono e-Algebra</p> <p>Emaphethini etinombolo asekela kutufukisa kwelwati lwetinombolo nekusetjentiswa kwato lekwakhelwe kutinombolo, emafangishini nebudlelwane.</p> <p>Emaphethini e-Jomethri afaka ekhatsi imigca lelandzelanako, bobunjwa, tintfo nemaphethini laseveni. Kumaphethini e-Jomethri bafundzi basebentisa lwati sikhala nabobunjwa.</p>
Sikhala nabobunjwa (iJomethri)	<p>Kufundza ngesikhala nabobunjwa kwengeta kwati nekutsandza emaphethini, kwenta kahle, kuzuza nebuuhle bemvelo nemasiko.</p> <p>Kugcila ku:</p> <ul style="list-style-type: none"> • timphawu, budlelwane; • kuma, indzawo; • kugucuka kwabobunjwa labangemada-yimenshini lamabili (2-D) netintfo letingemadayimenshini lamatsatfu (3-D) 	<p>Kulesigaba bafundzi bagcila kutintfo letingemadayimenshini lamatsatfu (3-D) nabobunjwa labangemada-yimenshini lamabili (2-D), kuma nenkhombandlela.</p> <ul style="list-style-type: none"> • Bafundzi bacubungula timphawu tetintfo letingemadayimenshini lamatsatfu (3-D) nabobunjwa laba lamabili (2-D) ngekutihlunga, kutihlelembisa, kutichaza nekutibala. • Bafundzi badvweba babuye bakhe bobunjwa netintfo. • Bafundzi babona babuye bachaze bobunjwa labasendzaweni yabo labafana nabobunjwa netintfo teTibalo. • Bafundzi bachaza kutsi tintfo tikuphi ngekusebentisa silulumagama lesifanele. • Bafundzi balanzela babuye banikete tinkhombandlela.
Silinganiso	<p>Kukala kucondzise ekukhetsemi nasekusetjentisweni kwetintfo letifanele nemaformula kubala timphawu tetehlakalo, bobunjwa, tintfo nendzawo. Kuhlobene ngco nelikhono lemfundzi kuteSayensi, ithekhinoloiji netemnotfo. Kusita umfundzi:</p> <ul style="list-style-type: none"> • Kucombeala • Kwati kahle ngeKukala nemiphumela yako. 	<ul style="list-style-type: none"> • Kulesigaba umcondvo wesilinganiso utfutfukiswa ngekusebenta netintfo letiphatsekako nabobunjwa, kufundza timphawu tebudze, umtsamo, sisindvo, bungakondzawo nesikhatsi. • Bafundzi balinganisa timphawu tabobunjwa netintfo ngekusebentisa tinsita letingakahleleki lakufanele khona njengetandla, tinyatselo, tintfo tekuphatsa njll. • Bafundzi bacatsanisa linani ngekusebentisa emagama ekucatsanisa njenga (-dze kuna/ -fisha kuna, -sindza kuna/ -lula kuna njll) • Bafundzi bangeniswa kutinsita letihlelekile njengemagremu, emekhilogremu, emamililitha, emalitha, emasentimitha nemamitha. <p>Imisebenti lephatselene nesikhatsi kufanele ihleleke ngekunaka kutsi kuhamba kwesikhatsi kufanele kutufukiswe kucala ngembikwekutsi bafundze ngesikhatsi.</p>
Kusebenta ngedatha	<p>Kufundza ngekusebenta ngedatha kutufukisa likhono lemfundzi le:</p> <ul style="list-style-type: none"> • kugcogca • kuhlela • kubukisa • kuhlatiya nekuhumusha idatha leniketiwe 	<p>Lekugcila kuko nakufundzisa noma kufundwa ngekusebenta kwedatha eSigaben Sabokhewane; kuhlela tintfo nedatha netindlela letehlukene ngekubuka timphawu letehlukene tentfo noma idatha.</p> <ul style="list-style-type: none"> • Bafundzi balindzeleke kutsi bahumushe babuye bakhe emagrafutifombe nemabhagrafu lakhombisa 1 ku 1 kucondzanisa emkhatsini wetintfo nekuvetwa kwato basebentisa idatha leniketiwe.

2.6 SISINDVO SEMIKHAKHA YALOKUCUKETFWE

Sisindvo semikhakha yalokucuketfwe sisebenta tinhoso letimbili letibalulekile: kwekucala lesisindvo sicondzisa ngebungako besikhatsi lesidzingekako kufundzisa lokucuketfwe kumkhakha ngamunye ngalokunelisako; kwesibili lesisindvo sicondzisa ngekusabalalisa kwalokufundwako eluhlolweni. Sisindvo semikhakha yalokucuketfwe asifanani kuliBanga ngalinye eSigaben Sabokhewane.

Lithebula 2.2 Sisindvo semikhakha yalokucuketfwe esigabeni sabokhewane

SISINDVO SEMIKHAKHA YALOKUCUKETFWE			
Lokucuketfwe	LiBanga 1	LiBanga 2	LiBanga 3
Tinombolo, timphawu tekubala nebudlelwane*	65%	60%	58%
Emaphethini, emafangishini ne-Aljebra	10%	10%	10%
Sikhala nabobunjwa (IJomethri)	11%	13%	13%
Silinganiso	9%	12%	14%
Kusebenta ngedatha (Statistikiki)	5%	5%	5%
	100%	100%	100%

*Emabangeni R-3, kabalulekile kwati kutsi Tibalo tigcile kulomkhakha wetinombolo, timphawu tekubala nebudlelwane. Bafundzi kufanele baphume esigabeni sabokhewane banelwati lobanti ngetinombolo nekutisembenta ngalokushelelako. Inhoso kutsi bafundzi baphumelele babuye babe nekutetsema ngetinombolo nangekubala. Ngalesizatfu sikhatsi sekufundza lesabelwa Tinombolo, emafangishini nebudlelwane sengetiwe. Umsebenti lomnyenti wemaphethini kufanele ugcile kumaphethini etinombolo kuchubeka kweneta likhono letinombolo.

2.7 TIBALO ESIGABENI SABOKHEWANE

Tibalo teSigaba Sabokhewane takha kuchumana kwemphilo yemntswana yasenkhulisa nemphilo yakhe sekangaphandle kwesikolo, netibalo letilukhuni temabanga latawuchubeka awafundze. Emabangeni ekucala bafundzi kufanele bahlangabetane netimo letitabanika ematfuba ekwenta, kukhuluma nekurekhoda imicabango yabo ngetibalo.

Sikhatsi lesisetjentiswa nakwentiwa tibalo sinemtselela loncumako ngekutfufuka kwemakhono nelwati lwetibalo. Imisebenti lebayentako bafundzi kufanele ingabi nguleyo yekucitsa nje sikhatsi kepha kufanele igcile ngalokucacile kutibalo njengoba kuhlelekile kukharikhulamu.

2.7.1 Ticondziso letiphakanyisiwe tekuphatsa indlu yekufundzela

Ngelilanga linye Tibalo tibekelwe sikhatsi lesincunyiwe. Ngesikhatsi seTibalo lesincunyiwe kufanele kwenteke loku lokulandzelako:

- Umsebenti weliklasi lonkhe
 - Tibalo tenhloko
 - Kuhlanganiswa kwelwati
 - Kuphatfwa kweliklasi (kunika umsebenti ngekutimela njii)
- Kufundzisa emacembu lamancane
 - Kubala
 - Kututfukisa lwaiti lwetinombolo (imisebenti yetemlomo nekwenta)

TIBALO LIBANGA R

- Kusombulula tinkinga tetibalo (imisebenti yetemlomo nekwenta)
 - Kubhala
 - Kutfutfukisa emasu ekubala (imisebenti yetemlomo nekwenta)
 - Emaphethini
 - Sikhala nabobunjwa
 - Kukala
 - Kusebenta ngedatha
- **Umsebenti lebawenta ngekutimela**

Bafundzi balolonga babuye bahlanganise Iwati lolutfukisiwe ngalesikhatsi bafundza bonkhe nangalesikhatsi bafundza ngamacembu lamancane.

Umsebenti weliklasi lonkhe: uma kugcilwe etibalweni tenhloko, kuhlanganisa kwelwati nekunika imisebenti yemfundzi ngamunye kutsatsa lokungenani emaminithi la 20 ngelilanga ekucaleni kwesifundvo seTibalo. Kuso lesikhatsi thishela angabuye asebente nelikilasi lonkhe kutfola nekurekhoda ligama lelilanga leliviki, lusuku, linani lebafundzi labakhona nalabangekho, nesimo selitulu. Tibalo tenhloko tifaka ekhatsi tibalo tenhloko letisheshisako (sib. Inombolo lesemuva/ ngembi Kwe 8; njll). Thishela angabuye ahlanganise nelwati loluya ngekushuba. Kubalulekile futsi kutsi thishela anikete bafundzi imisebenti jikelele nemisebenti lebayenta ngamunye uma yena asachubeka nemacembu lamancane.

Imisebenti legcile emacenjini lamancane: Imisebenti leba yimphumelelo nguleyo letsatsa licembu lelincane lebafundzi (8-12) labanemakhono lafanako ahlale nabo esiyilweni noma ematafuleni abo ngalesikhatsi labanye bafundzi batisebentela ngamunye. Thishela usebenta nebafundzi **ngemlomo nangekwenta**, benta imisebenti yekubala, kucombela, kutfutfukisa Iwati Iwetinombolo, imisebenti yekusombulula tinkinga tetibalo nemisebenti lephatselene nemaphethini, sikhala nabobunjwa, silinganiso nekusebenta ngedatha. Lemisebenti kumele ihlelwne ngekucophelela.

Umsebenti lobhalwako (incwadzi yekusebentela, emaphethini ekusebentela, emakhadi emsebenti njll) kufanele ube yincenyen yemsebenti welicembu lapho kungenteka khona kute kusekelwe kufundza. Bafundzi kufanele babe netintfo tekubhala (emabhuku emsebenti wasekilasini, njll) kute babbale imisebenti yekusombulula tinkinga tetibalo. Tikhatsi temacembu kufanele tibe nekusebentisa lokukhulu, bafundzi kufanele bagcugcutelwe kwenta, kukhuluma, kukhombisa nekurekhoda imicabango yabo ngetibalo.

Bothishela kufanele bangabatsatseli phansi bafundzi labatsatsa kancane, kufanele nabo babanikete umsebenti lofana newalabanye. Kuba lula kumatanisa lizinga lebulukhuni bemsebenti ulicatsanisa nebafundzi, uma thishela asebenta nelicembu lebafundzi labati kwenta ngalokufanako. Emacembu lahlanganise bafundzi labenta ngetindlela letehlukene asebenta kahle kwakha, Kukala, kwakha emaphethini noma imisebenti yekuhlunga noma imidlalo.

Imisebenti lebayenta ngekutimela: Ngalesikhatsi thishela enta tifundvo letigcile emacenjini lamancane, bafundzi labanye kufanele babe batibandzakanye naleminye imisebenti leyehlukene yeTibalo legcile ekuciniseni nasekuhlanganiseni Iwati nemakhono lafundzisiwe ngesikhatsi setifundvo letigcile emacenjini lamancane. Lemisebenti lebayenta ngekutimela kufanele ingafani kute bafundzi labenta tintfo ngetindlela letehlukene bakwati kwenta. Imisebenti lebayenta ngekutimela ingafaka loku lokulandzelako:

- kusebenta ngetincwadzi temsebenti
- emaphepha/emakhadi emsebenti ekubala, kusebenta ngetinombolo, tinkinga tetibalo letilula letihambisana nengcikitsi (tibalo temagama) abe ahlelwe ngetigaba.
- Imidlalo yeTibalo lefana neLudo, emadomino, emaphazili ne
- misebenti lefaka ekhatsi kwakha lokutsite, kuhlunga, emaphethini neKukala.
- Sikhatsi setibalo kufanele sisekele nebafundzi labahlangabetana netihibe tekufundza, imisebenti lesita bafundzi labahamba embili, imisebenti yeluhlolo, njll
- Imisebenti legcile kumfundzi ngamunye neyemacembu lamancane kufanele kutsi thishela ayibuke (leyenti-wako, yemlomo) ayimake abuye abuke bafundzi nababhala njengencenyne yeluhlolo lolungakahleleki naloluh-lelekile.
- Kulandzelela timphendvulo letiniketwa bafundzi (ngemlomo, ngekwenta, ngekubhala) uma bafundza nobe thishela afundzisa kusita thishela kutsi akwati kuhlola bafundzi ngalokuchubekako, kulandzelela inchubekelembili yebafundzi nekuhlela lusito lolufanele bafundzi labahlangabetana netihibe ekufundzeni.

2.7.2 Bafundzi labahlangabetana netihibe ekufundzeni Tibalo

Kubalulekile kutsi bafundzi labahlangabetana netihibe ekufundzeni Tibalo baniketwe imisebenti letsite lekumele bayente nabafundza.Kumele kusetjentiswe tibonelo labatatabona, kusetjentiswe netintfo lucobo lwato kanye nemisebenti lephatsekako sikhatsi lesidze kubafundzi labanetihibe ngobe kwenta umsebenti lolukhuni ngekusheshisa kungenta kutsi bafundzi bacakeke babuye bangachubekeli embili.Labafundzi kumele baniketwe sikhatsi lesinyenti:

- Sekucedzela umsebenti weluhlolo
- Sekutfola emakhono ekucabanga(netindlela takhe)

Linani lemisebenti lekumele icedzelwe kumele ihambisane nesimo semfundzi ngaphandle kwekulahlekelwa ngumcondvo kanye nemakhono lafundziswako.

2.7.3 Tibalo tenhloko

Tibalo tenhloko tidlala indzima lebalulekile kuKharikhulamu.Tinombolo lekumele tihlanganiswe kanye nelithebula lekuphindzaphindza, lekumele bafundzi balati nobe batikhumbule liniketiwe ebangeni ngalinye.Kuneta kuloku,tibalo tenhloko tisentjentiselwa kutfolo tinombolo letisetulu letehlukene ngekutsi babale bece letinye tinombolo kanye nekutsi bente leminye imisebenti yekukhuphuka wehle sicanco setinombolo.Thishela weliBanga lesitsatfu angahle abute imibuto lelandzelanako lefana nalena:Cala ngalenombolo 796, yingete nge- 7 = 803, yehlise nge-5 = 798. Ngeta nge- 10... nga- 2... nge- 90..., yehlise nge- 5... njll. Lemisebenti lefana nalena isita bafundzi kutsi bakwati kuticambela imigcatinombolo yenhloko.

Tibalo tenhloko tivela kakhulu kusahluko semsebenti wekubala kanye newekutufukisa tinombolo, lophat selene nesihloko lesitsi Tinombolo kanye neMaphethini,kantsi futsi ingabuye yenteke ngesikhatsi sesilinganiso nesikhatsi semisebenti lephatselene neDatha.Nangabe benta sifundvo seTibalo tenhloko bafundzi bangacindzetelwa kutsi bente tibalo tenhloko lebangeke batikhone- tintfo tekubhala nobe tintfo tekubala kumele kutsi bafundzi labatidzingako batitfolo ngaso sonkhe sikhatsi.

TIBALO LIBANGA R

2.8 LIBANGA R

Indlela yekufundza tibalo kumele igcile kumgomo wekuhlanganisa tifundvo kanye nekufundza badlala. Thishela kumele kube nguye lohamba embili, angenelele lapho kufanele khona. Thishela longenelelako uveta ematfuba lamanyeti ekufundza lokungakahlewa lokuvela ngalesikhatsi umfundzi atentela umsebenti ekhoneni lapho atakhela khona umfanekisomcondvo, ngesikhatsi sekudlala bakhululekile nobe ngesikhatsi sekudlala ngemanti nesanti kanye nangesikhatsi semsebenti loholwa nguthishela lesigcile kumagama lasetjentiswa esifundvweni seTibalo, lafana nekubala, kutfutfukisa tinombolo,sikhala nabobunjwa, emaphethini, sikhatsi kanye naleminye imisebenti yetibalo. Umbala awusiso sihloko lesitimele, kepha ungasetjentiswa nakutfutfukiswa umcondvo lotsite wetibalo, emsebentini lofana nekuhlunga, kugcogca nekuhlela tintfo ngetigaba tato.

Tonkhe tinhlangotsi ebangeni R, lokufaka ekhatsi simo seliklasi, kufundzisa nekufundza kumele kutfutfukise kukhula kwemfundzi ngalokuphelele. Kutfutfuka lokuyinceny yeTibalo letifaka ekhatsi kutfutfuka kwengcondvo (kucatulula tinkinga tetibalo, umcondvo lohlelekile kanye nekucabanga lokuhlelekile), kutfutfuka kwelulwimi (lulwimi IweTibalo) kanye nendlela labona ngayo tintfo umfundzi,kutfutfuka ngekwemoya,kutfutfuka ngetenhlaho. Tonkhe letinhlangotsi tingatfutfukiswa ngesikhatsi setindzaba, semculo,semlolotelo, ngesikhatsi semidlalo yeminwe, ngesikhatsi sekudlala ngemanti, kusebentisa emathoyizi ekufundza,lafaka ekhatsi imidlalo yembodi,tintfo lebatakhela ton a kanye nemisebenti lephatselene (nesisindvo,sikhatsi,umtsamo, silinganiso, njll), umdlalo wekutakhela umfanekiso engcondvweni,imidlalo ledlalwa ngaphandle kanye nemidlalo ledlalwa enkhundleni.Tinhlobo letihlukene temidlalo titawufaka ekhatsi tinceny letitsite teTibalo, letifana Kukala ngalesikhatsi bapheka nobe kubala ngalesikhatsi batsenga.

Ngalamanye emagama kucala kufundza Tibalo kanye nebudlelwane lobukhona emkhatsini welwati IweTibalo kumele kuhambisane nemigomo yekufundza lapho bafundzi batawudlula etigabeni letintsatfu tekufundza letifana naleti:

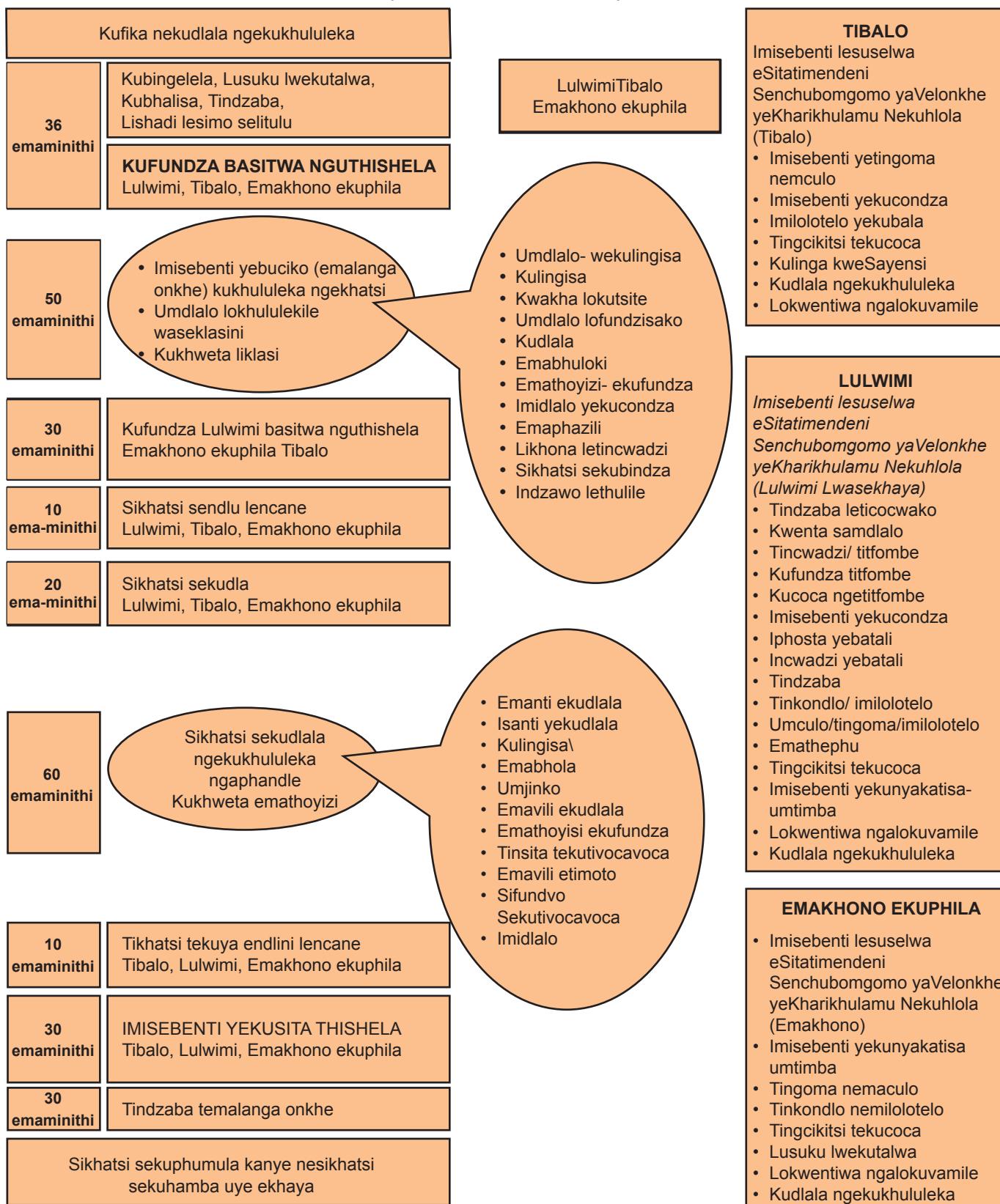
- Sigaba lapho bafundzi basebentisa kunyakata kwemtimba kanye nemiva
- Sigaba lapho basebentisa tintfo lucobo lwato, sib.timbonyo temabhodlela kanye naletinye tintfo letikhona endzaweni lebakuyo
- Sigaba lapho bakhombisa umsebenti ngekubhala basebentisa liphepha nepeniseli,(sib.kusebentisa imidvwebo, nekufananisa emakhadi)

Ebangeni R luhlelo Iwetikhatsi tekufundzisa lubitwa ngekutsi **Iuhlelo Iwemalanga onkhe** (buka Umfanekiso 1) kantsi futsi lucuketse tinceny letintsatfu letifana naleti:

- Imisebenti leholwa nguthishela
- Imisebenti yemalanga onkhe
- Imisebenti umntfwana laticalela yona nobe kudlala lokukhululekile

Umfanekiso 1: LiBanga R Luhlelo Iwemalanga onkhe

(Kusuka ku: ± 7:30-13:00)



TIBALO LIBANGA R

Lokumele kugcizelelw ngasosonkhe sikhatsi akube kusetjentisa kwetinceny teluhlelo lwemalanga onkhe kute kutfutfukiswe kucala kufundza Tibalo ngendlela lejabulisako naletentakalelako.Sib. ematfuba ekufundza tibalo babe baholwa nguthishela ayaniketwa ngesikhatsi saleminye imisebenti.Tikhatsi letinyenti kumele tigcile esifundvweni seTibalo.Esikhatsini sasekuseni ngalesikhatsi bafundzi babingelelwa, bahlolwa kutsi bakhona yini esikoleni, kuvela ematfuba ekudlala ngetinombolo, sib.kubala. Letinye tikhatsi letifana nesikhatsi seTibalo, sikhatsi lapho umfundzi aveta indlela labona ngayo tintfo, sikhatsi sekunyakatisa umtimba, sikhatsi semculo, sikhatsi seteSayensi nato tingagcila etibalweni.

Imisebenti lephatselene nebuciko bekuicambela nayo ingacizelela tifundvo teTibalo, sib.bobunjwa be-Jomethri njengendilinga nesikwele, kwenta iholagi nekutakhela emaphethini laphatselene nesitfombe.Lishadi lesimo selitulu, ikhalenda kanye nesikhatsi sekubungata lusuku lwekutalwa, konkhe loku kubanika ematfuba ekufundza Tibalo.Sib. Iwati lwathishela ngulo lolungenta kufundza kube yimphumelelo.

- *Tintfo letenteka malanga onkhe*, lapho bafundzi babamba lichaza ngesikhatsi sekudla, ngesikhatsi sekufika, ngesikhatsi sekuya ekhaya kanye nesikhatsi sekuya endlini lencane,sonkhe lesikhatsi singasetjentisa kugcilwe eTibalweni.Bafundzi labagcoke lokubovu, sib.batawuba bokucala kuya endlini lencane (ungasebentisa umbala kanye netinombolo letitayelekile), umntfwana ngamunye utawutfola indishi nesinkwa (1 ku 1 kuhambelana kwetintfo), Thandi utawufuna sinkwa sesibili,Sipho yena akasakufuni lokunye.Loku kusho kutsi thishela kufanele abone abuye asebentise ematfuba lavelako ekufundzisa njengoba angumumanisi wekufundza.
- Ngalesikhatsi semdlalo lokhululekile thishela angatfutfukisa sikhatsi sekucala kufundza Tibalo ngekutsi ahlele kahle indzawo yekudlala bakhululekile.Kudlala ngaphandle lokuhululekile lokufana nekucanca luhlaka lolwakhiwe ngetingodvo nobe kugibela libhayisikili, kungatfutfukisa kusetjentisa kwesilulumagama setibalo lesibalulekile lesifana nalesi, etulu/phasi, ngekusheshisa/kancane, kuphakeme/kuphasi, njll. Kudlala ngemanti nangesanti kutawenta bafundzi kutsi bavisise emagama lafana nalawa, sisindvo, bungako kanye nemtsamo. Yonkhe lemisebenti lekukhulunywe ngayo itawutfutfukisa emakhono endlela yekubona tintfo letitawuba yincenyte letawuphumelelisa kufundvwa kweLulwimi kanye neTibalolokuhlelekile.Tibonelo talamakhono nguleti:
 - Kutfutfukisa kuvisisa indzawo yakho esikhali, sib.ngemuva, ngaphambili, ngaphasi, dvutane nentfo (luku singakuchumanisa nesimelibungako eTibalweni).
 - Tinkhombandlela kanye netinhlangotsi (luku singakuchumanisa netinombolo kanye nekwakhiwa kwetinhlavu, nekufundza ucale esandleni sesancele uye esandleni sekudla)

Lendlela lechazwe ngenhla, indlela lekumele ilandzelwe ebangeni R letawutfutfukisa kucatululwa kwetinkinga tetibalo, kucabanga lokuhlelekile kanye nekucabangisa, kanye nekufundzisa ngebuve bakho ngobe igcile ekufundziseni, nasekucocisaneni ngekubambisana.Ngekutsi basebentise ematfuba ekufundzisa lokungakahlelwa, thishela angakwati kugcugcutela bafundzi kutsi bavete tinchumo tabo babuye bacombele ngaloko lokungenteka, sib.Ngabe bacabanga kutsi sitja lebasisebentisa ngalesikhatsi badlala ngemanti singamumatsa emanti lamanyenti kudlula lesinye.

Ngekwenta tipakamiso letilusito kanye nekucela bafundzi kutsi bacabange ngaletinye tindlela tekucatulula tinkinga tetibalo, thishela angakwati kugcugcutela bafundzi kutsi bacabange ngalokujulile bese banika tizatfu letifanele letiphatselene netincumo lebatitsetse.Loku akusho Tibalo kuphela kodvwa kutfutfuka ngalokuphelele nako kuyabukwa, tindzawo letibalulekile letiphatselene neSitatimende Senchubomgom yaVelonkhe yeKharikhulamu neKuhlola nato tiyabukwa.

Inchubo yekuhlola ebangeni R kumele ibe ngulengakahleleki kantsi bafundzi kumele bangabi sesimeni sekubhaliswa sivivinyo.Ngalesizatfu lesi imsebenti yekuhlola ayikafakwa eSitatemendeni Senchubomgom yaVelonkhe yeKharikhulamu neKuhlola seliBanga R. Umsebenti ngamunye lotawusetjentiselwa kuhlola kumele uhleleke kahle kute uhlanganise tinhlobo letihlukene temakhono.

Ebangeni R kuhlola lokunyenti kwenteka ngekutsi bafundzi bacashelwe, lapho thishela arekhoda imiphumela yekuhlola asebentisa tinhla tekutikhumbuta. Uma umnyaka uchubeka, sitfombe lesiphelele semfundzi ngamunye, tinkinga tetibalo lanato kanye nalapho aphumelela khona kuyakheka kancane kancane. Loko kunika litfuba lekusombulula tinkinga tetibalo letikhona kanye nekukhulisa loko lakwati kukwenta.

Luhlelo lwekufundza loluhlelekile lwakadzeni lolugcile eklassini, lolwenta umntfwana afundze angakakhululeki kufanele balugweme ngobe kwenta umfundzi weliBanga R angatifundzi ngalokufanele tibalo.

Liklasi leliBanga R kumele lingafani neliklasi leliBanga 1.Linetimphawu talo letihlukile letiphatselene nekutsi bafundzi labanaleminyaka balivisia njani live lebakulo kanye nekutfola lwati, emakhono kanye nemagugu latabavumela kutsi bangete ematfuba labaniketwe wona eminyakeni yekufundza ngalokuhlelekile

2. 9 TINSITA LETIPHAKANYISIWE TELIKLASI LETIBALO TESIGABA SABOKHEWANE

- Tibali
- Lidayizi lelikhulu
- Ifulemu lenkhulu yekubala
- Lishadi lebudze
- 1-100 kanye na 101-200 iphosta yetinombolo lenkhulu (100 wemashadi)
- Tinhlobo letihlukene temugcatinombolo
- Emakhadi lakhulisako
- Imali yekudlala-imali lebuhehlu kanye nemali yemaphepha
- Ikhalenda yangalowomnyaka
- Liwashi letinsi laselubondzeni lelikhulu
- Sikali sekusimamisa
- Emabhuloki ekwakha
- Lubumba Iwekudlala
- Tinhlobo letihlukene temabhokisi labobunjwa labahlukene lababuya ekhaya
- Tinhlobo letihlukene temabhodlela eplasitiki kanye netintfo letitawuchaza nobe ticatsanise umtsamo
- Sibonelo lesihle lesiyimbulungu (ibhola), iphrizimu lengucalandze (libhokisi), ikyubhu, ikhoni, iphiramidi kanye nesilinda. Thishela angatentela loku.
- Linani lemaplasitiki nobe emabhodi lasikwele, indilinga, tinhlobo letihlukene tabocalantsatfu letingemasayizi lahlukene.
- Imidlalo yeTibalo, emaphazili, emathanigramu, nalokunye
- Loku kubalulekile eBangeni R kanye naseBangeni 1:
 - Indzawo yekudlala ngesanti nemanti
 - Tinsita tekucanca, tekusima, tekujinka kanye nekuzuba
 - Sitolo sekudlala lesinetintfo lekumele batitsenge kanye nemali yekudlala
 - Tinhlobo letihlukene temidlalo lefanele
 - Emabhuloki

SIGABA 3: LOKUCONDZENENGCO NALOKUCACISAKO KWALOKUCUKETFWE

3.1 SINGENISO

Tibalo ka-GET ticuketse letihlokwana letilandzelako:

- Tinombolo, timphawu and budlelwane
- Emaphethini, emafangishini ne-Algebra
- Sikhala nabobunjwa (iJomethri)
- Kulinganisa
- Kusebenta ngedatha

Ngakunye kwaloko lokucuketfwe kuyahlukanisa kube tihloko etibalweni, sib.sikhala netibunjwa emabangeni abokhewane sihloko sinye singubobunjwa labangu-2-D. Lwati nemakhono aniketiwe esihlokweni ngasinye. Sahluko 3 seSitatimende Senchubomgomo Yekharikhulamu Nekuhlola (SISEYENE) seTibalo sesigaba sabokhewane sinika sibuye sichaze lokucuketfwe kwetibalo

3.2 KUNIKA LOKUCUKETFWE KUKHONJISWE INCUBELEMBILI

Lelithebulala lalesigaba likhombisa tihlokwana nemakhono laniketiwe nekutfufuka kusukela eBangeni R -3. Lelithebulala lesibutsetelo seliBanga sikhombisa kututfufuka kwelwati nemakhona kuwo omane emathemu emnyaka

Kodvwa-ke kuletinye tihloko letihlokwana/imicondvvo nemakhono kuyafana emabangeni lamabili lalandzelanako. Lokuchazwa kwalokucuketfwe kutawunika ticondziso kwekutsi kututfufuka kungentiwa kanjani kulesimo. Lokuniketwa kwalokucuketfwe kumele kufundvwe kanye nekuchazwa kwalokucuketfwe.

Sibutsetelo sesiGaba sabokhewane saloko lokucuketfwe; timphawu nebudlelwane, emaphethini, emafangishini ne-Algebra, sikhala nabobunjwa, kulinganisa nekusebenta ngedatha emabangeni R-3 njengoba kucacisiwe kulelithebulala lelingentasi:

SIBUTSETELO SESIGABA SABOKHEWANE
1. TINOMBOLO, TIMPHAWU TEKUBALA NEBUDLELWANE

Kutuffuka kwetinombolo, timphawu tekubala nebudlelwane

- Kutuffuka lokumcoka etinombolweni, kutimphawu tekubala nebudlelwane kwenteka ngetindela letintsaatu:
 - Kungenteka kuhleleka kwetinombolo.
 - Kungeniswa timhlobo letehlukene tetinombolo.
 - Kugucuka kwetindela tekubala.
- Njengoba linani lekuheleka kwetinombolo lingeteka kufika eBangeni 3, bafundzi kumele batutfukise tindela letisebentisekako tekubala .
- Tinkinga tetibalo tesimongcondvo kumele ticaphele kuhleleka kwetinombolo talelobanga kanye nendela bafundzi labakhona ngayo kubala

THILOKO	LIBANGA R	LIBANGA 1	LIBANGA 2	LIBANGA 3
KUTUFUFUKISWA KWEBALA TINOMBOLO: Bala ngetinombolo letiphelele				
1.1 Bala tintfo	Bala tintfo letiphatsekako Combela ubuye ubale ngekwetsembeka. lokungenani tintfo leti -10 temalanga onkhe	Bala tintfo letiphatsekako Combela ubuye ubale ngekwetsembeka. lokungenani tintfo leti -200 temalanga onkhe	Bala tintfo letiphatsekako Combela ubuye ubale ngekwetsembeka. lokungenani tintfo leti -1000 temalanga onkhe	Bala tintfo letiphatsekako Combela ubuye ubale ngekwetsembeka. lokungenani tintfo leti -1000 temalanga onkhe
1.2 Bala uye phambili nasemuva	Bala uye phambili nasemuva ngaboye nga -1 kusukela ku -1 uye-10. Kusebentisa imiolotelo nemaculo etinombolo	Bala uye phambili nasemuva ngaboy-1 kusukela nobe kuyiphi inombolo emkhatsini we 0 ne 1000 Bala uye phambili: • ngema-10 kusukela kunobe nguyiphi imalithiphuli ye -10 emkhatsini we-0 ne -200	Bala uye phambili nasemuva nge: • ngabo-1 kusukela nobe kuyiphi inombolo emkhatsini we 0 ne 1000 Bala uye phambili: • ngema-10 kusukela kunobe nguyiphi imalithiphuli ye -10 emkhatsini we-0 ne -100 • ngeti -5 kusukela kunobe nguyiphi imalithiphuli ye -5 emkhatsini we-0 ne -100 • ngabo -2 kusukela kunobe nguyiphi imalithiphuli ye -2 emkhatsini we-0 ne -100	Bala uye phambili nasemuva nge: • ngabo-1 kusukela nobe kuyiphi inombolo emkhatsini we 0 ne 1000 Bala uye phambili: • ngema-10 kusukela kunobe nguyiphi imalithiphuli ye -10 emkhatsini we-0 ne -200 • ngabo -3 kusukela kunobe nguyiphi imalithiphuli ye -3 emkhatsini we-0 ne -200 • ngabo -4 kusukela kunobe nguyiphi imalithiphuli ye -4 emkhatsini we-0 ne -200 • ngema 20,25,50,10 lokungenan iye kule kulgungani e-1000

THLOKO	LIBANGA R	LIBANGA 1	LIBANGA 2	LIBANGA 3
KUTFUFUKA KWELWATI LWETINOMBOLO: Kuveta tinombolo letiphelele				
1.3 Tinombolo nemagama etinombolo	Bona, utfole ubuye ufundze tinombolo <ul style="list-style-type: none"> Bona, utfole ubuyeufundze tinombolo -1 uye eli-10. Bona, utfole ubuye ufundze emagama etinombolo -1 uye eli-10. 	Bona, utfole ubuye ufundze tinombolo <ul style="list-style-type: none"> Bona, utfole ubuye ufundze tinombolo -1 uye e-100. Bhala tinombolo -1 uye -20 Bona, utfole ubuye ufundze emagama etinombolo -1 uye -10 Bhala emagama etinombolo etinombolo -1 uye -10 	Bona, utfole ubuye ufundze tinombolo <ul style="list-style-type: none"> Bona, utfole ubuye ufundze tinombolo -0 uye 200. Bhala tinombolo -0 uye -100 Bona, utfole ubuye ufundze emagama etinombolo -0 uye -100 Bhala emagama etinombolo -0 uye e-100 	Bona, utfole ubuye ufundze tinombolo <ul style="list-style-type: none"> Bona, utfole ubuye ufundze tinombolo -0 uye 1000. Bhala tinombolo -0 uye -1000 Bona, utfole ubuye ufundze emagama etinombolo -0 uye -1000 Bhala emagama etinombolo -0 uye-1 000
KUTFUFUKA KWELWATI LWETINOMBOLO: Chaza, catsanisa bese uhela tinombolo letiphelele				
1.4 Chaza, catsanisa ubuye uhela tinombolo	Chaza, catsanisa ubuye uhela tintfo tifike -10. <ul style="list-style-type: none"> Chaza tinombolo letipcogiwe tifike eli-10 Catsanisa kutsi ngyiphi yetintfo kuleti letimbili letipcogiwe lenkhulu, lencane, lencane kuna, lenkhulu kuna, lenyent kuna, kulingana na, lokunyenti, llukuncayane, letimbalwa urike eli-10. Hila tintfo letindlula kuletimbili tioale kuiokuncane kakhulu kuye kuiokukhulu kakhulu urike eli-10 	Chaza, catsanisa ubuye uhela tintfo tifike -20. <ul style="list-style-type: none"> Chaza ubuye ucatsanise tintfo letipcogiwe ngalokunyenti, lokuncane nalokufana nje. Chaza ubuye uhela tintfo letipcogiwe ticale kuiokuncane kuye kuiokuncane nakulokuncane kuye kuiokunyenti Chaza, catsanisa ubuye uhela tintombolo uye -20 	Chaza, catsanisa ubuye uhela tinombolo uye -99 <ul style="list-style-type: none"> Chaza ubuye ucatsanise tinombolo letiphelele urike -99 usebentisa lokuncane kuna, lokukhulu kuna, lokunyenti kuna, nakulingana. Chaza ubuye tinombolo letiphelele urike -99 kusuka kulencane uye kulenkulu nekusuka kulenkulu uye kulencane. 	Chaza, catsanisa ubuye uhela tinombolo uye -999 <ul style="list-style-type: none"> Chaza ubaye ucatsanise tinombolo letiphelele urike -999 usebentisa lokuncane kuna, lokukhulu kuna, lokunyenti kuna, nakulingana. Chaza ubaye tinombolo letiphelele urike -999 kusuka kulencane uye kulenkulu nekusuka kulenkulu uye kulencane.
Sebentisa tinombolo te-odinali, indzawo nobe kubekeka				
Sebentisa tinombolo te-odinali, indzawo nobe kubekeka				
Sebentisa tinombolo te-odinali, indzawo nobe kubekeka				
Sebentisa tinombolo te-odinali, indzawo nobe kubekeka				

TIBALO LIBANGA R

TILOKO	LIBANGA R	LIBANGA 1	LIBANGA 2	LIBANGA 3
KUTUFUKA KWELWATI LWETINOMBOLO: Simelibungako				
1.5 Simelibungako	Cala kubona lokungenani simelibungako setinombolo letingemadijithi lamabili uye- 20 <ul style="list-style-type: none"> Hlahlela tinombolo letingemadijithi la-2 tibe ngema malithipuli e -10 nemivo/emayunithi 	Cala kubona lokungenani simelibungako setinombolo letingemadijithi lamabili uye- 99 <ul style="list-style-type: none"> Hlahlela tinombolo letingemadijithi la-2 tibe ngema malithipuli e -10 nemivo ifike -99 tibe ngema malithipuli e -10 nemivo/emayunithi Tfola ubuye unike bungako bedijithi ngayinye. 	Cala kubona lokungenani simelibungako setinombolo letingemadijithi lamabili uye- 99 <ul style="list-style-type: none"> Hlahlela tinombolo letingemadijithi la-3 tufike -99 tibe ngema malithipuli e -100, emamalithipuli e -10 nemivo/emayunithi Tfola ubuye unike bungako bedijithi ngayinye 	Cala kubona lokungenani simelibungako setinombolo letingemadijithi lamabili uye- 99 <ul style="list-style-type: none"> Hlahlela tinombolo letingemadijithi la-2 tibe ngema malithipuli e -10 nemivo ifike -99 tibe ngema malithipuli e -10 nemivo/ emayunithi Tfola ubuye unike bungako bedijithi ngayinye
SOMBULULA TIBALO ENGCIKITSINI				
1.6 Emasu ekusombulula tinkinga tetibalo.	Sebentisa lamasu lalandzelako uye e- 10: <ul style="list-style-type: none"> Tinsita letiphatsekako sib. tibali Sicancu lesibonakalako setinombolo 	Sebentisa lamasu lalandzelako nangabe kusonjuuluwa tinkinga tetibalo nekuhaza tisombululo taletinkinga tetibalo: <ul style="list-style-type: none"> Tinsita letiphatsekako, sib. Tibali Kusebentisa titfombe kwetfu latibalo tendzaba. Kwakha nekuhlahlela tinombolo Kuphindza nekuhhafula Umugcatinombolo 	Sebentisa lamasu lalandzelako nangabe kusonjuuluwa tinkinga tetibalo nekuhaza tisombululo taletinkinga tetibalo: <ul style="list-style-type: none"> Imidwewebo nobe tinsita letiphatsekako, sib. Tibali Kwakha nekuhlahlela tinombolo Kuphindza nekuhhafula Umugcatinombolo 	Sebentisa lamasu lalandzelako nangabe kusonjuuluwa tinkinga tetibalo nekuhaza tisombululo taletinkinga tetibalo: <ul style="list-style-type: none"> Kwakha nekuhlahlela tinombolo Kuphindza nekuhhafula Umugcatinombolo Kusondzeta eshumini
1.7 Kuhlanganisa nekususa	Sombulula tinkinga tetibalo temagama (tibalo tetindzaba) ngengcikitsi bese uchaza tisombululo tenkinga tabo kufaka ekhatsi kuuhlanganisa nekususa etimphindvulweni ufike -20.	Sombulula tinkinga tetibalo temagama (tibalo tetindzaba) ngengcikitsi bese uchaza tisombululo tenkinga tabo kufaka ekhatsi kuuhlanganisa nekususa etimphindvulweni ufike -99.	Sombulula tinkinga tetibalo temagama ngengcikitsi bese uchaza tisombululo tenkinga tabo kufaka ekhatsi kuphindza nekuhlanganisa lekuholela ekuphindzaphindzeni nekuhindhaphindzeni	Sombulula tinkinga tetibalo temagama ngengcikitsi bese uchaza tisombululo tenkinga tabo kufaka ekhatsi kuphindza nekuhlanganisa lekuholela ekuphindzaphindzeni nekuhindhaphindzeni
1.8 Phindza kuhlanganisa lokutawuholela ekuphindzaphindzeni	Sombulula tinkinga tetibalo temagama ngengcikitsi bese uchaza tisombululo tenkinga tabo kufaka ekhatsi kuphindza nekuhlanganisa lekuholela ekuphindzaphindzeni nekuhindhaphindzeni	Sombulula tinkinga tetibalo temagama ngengcikitsi bese uchaza tisombululo tenkinga tabo kufaka ekhatsi kuphindza nekuhlanganisa lekuholela ekuphindzaphindzeni nekuhindhaphindzeni	Sombulula tinkinga tetibalo temagama ngengcikitsi bese uchaza tisombululo tenkinga tabo kufaka ekhatsi kuphindza nekuhlanganisa lekuholela ekuphindzaphindzeni nekuhindhaphindzeni	Sombulula tinkinga tetibalo temagama ngengcikitsi bese uchaza tisombululo tenkinga tabo kufaka ekhatsi kuphindza nekuhlanganisa lekuholela ekuphindzaphindzeni nekuhindhaphindzeni

THLOKO	LIBANGA R	LIBANGA 1	LIBANGA 2	LIBANGA 3
1.9 Kugcgcela ndzawonye lokuholela ekwahlukaniseni	Sombulula ubuye uchaze tisombululo tetinkinga tetibalo temagama (tibalo tetindzaba) engcikitsini lekufaka ekhatsi kwabelana ngalokulinganako, kugcgcela ndzawonye ngetinombolo letiphelele ufike -20 netimpfendvulo letingatifaka tinsalela.	Sombulula ubuye uchaze tisombululo tetinkinga tetibalo temagama (tibalo tetindzaba) engcikitsini lekufaka ekhatsi kwabelana ngalokulinganako, kugcgcela ndzawonye ngetinombolo letiphelele ufike -50 netimpfendvulo letingatifaka tinsalela.	Sombulula ubuye uchaze tisombululo tetinkinga tetibalo temagama (tibalo tetindzaba) engcikitsini lekufaka ekhatsi kwabelana ngalokulinganako, kugcgcela ndzawonye ngetinombolo letiphelele ufike -100 netimpfendvulo letingatifaka tinsalela.	Sombulula ubuye uchaze tisombululo tetinkinga tetibalo temagama (tibalo tetindzaba) engcikitsini lekufaka ekhatsi kwabelana ngalokulinganako, kugcgcela ndzawonye ngetinombolo letiphelele ufike -50 netimpfendvulo letingatifaka tinsalela.
1.10 Kwabelana lokuholela etincetwini		Sombulula ubuye uchaze tisombululo tetinkinga tetibalo temagama (tibalo tetindzaba) engcikitsini lekufaka ekhatsi kwabelana ngalokulinganako, kugcgcela ndzawonye ngetinombolo letiphelele ufike -10 netimpfendvulo letingatifaka tinsalela.	Sombulula ubuye uchaze tisombululo tetinkinga tetibalo temagama (tibalo tetindzaba) engcikitsini lekufaka ekhatsi kwabelana ngalokulinganako, kugcgcela ndzawonye ngetinombolo letiphelele ufike -20 netimpfendvulo letingatifaka tinsalela.	Sombulula ubuye uchaze tisombululo tetinkinga tetibalo temagama (tibalo tetindzaba) engcikitsini lekufaka ekhatsi kwabelana ngalokulinganako, kugcgcela ndzawonye ngetinombolo letiphelele ufike -20 netimpfendvulo letingatifaka tinsalela.
1.11 Imali	Cikelela kuttutukisa lwati lwemali lebuhhehu neyemaphephya yaseNingizimu Afrika.	<ul style="list-style-type: none"> Bona ubuye utfolia imali lebuhhehu yaseNingizimu Afrika (5C, 10C, 20C, 50C, R1, R2, R5) neyemaphephya (R10 ne R20) Sombulula tinkinga tetibalo temali lefaka emanani nentijji uye R20 nesenti lafinyelela ku-20c 	<ul style="list-style-type: none"> Bona ubuye utfolia imali lebuhhehu yaseNingizimu Afrika (5C, 10C, 20C, 50C, R1, R2, R5) neyemaphephya (R10 ne R20) Sombulula tinkinga tetibalo temali lefaka emanani nentijji uye R99 nesenti lafinyelela ku .90c. 	<ul style="list-style-type: none"> Bona ubuye utfolia imali lebuhhehu yaseNingizimu Afrika (5C, 10C, 20C, 50C, R1, R2, R5) neyemaphephya (R10 ne R20) Sombulula tinkinga tetibalo temali lefaka emanani nentijji uye R99 nesenti lafinyelela ku .90c.
KUTIBALELA NGEKUKHULULEKA				
1.12 Emasu (Tindlela nobe tindlelanchubo)		<p>Sebentisa lamasu lalandzelako nangabe ubala:</p> <ul style="list-style-type: none"> Imidvwебо nobe тинсита letiphatsekako, сиб. тибали Kwakha nekuhlahlela Kuphindza nekuhhafula Umugcatinombolo letiphatsekako 	<p>Sebentisa lamasu lalandzelako nangabe ubala:</p> <ul style="list-style-type: none"> Imidvwебо nobe тинсита letiphatsekako, сиб. тибали Kwakha nekuhlahlela Kuphindza nekuhhafula Umugcatinombolo letiphatsekako 	<p>Sebentisa lamasu lalandzelako nangabe ubala:</p> <ul style="list-style-type: none"> Imidvwебо nobe тинсита letiphatsekako, сиб. тибали Kwakha nekuhlahlela Kuphindza nekuhhafula Umugcatinombolo letiphatsekako
1.13 Kuhlanganisa nekususa	Sombulula tinkinga tetibalo tekuhlanganisa nekususa ngemlomo letinetisombululo letifika e-10	<ul style="list-style-type: none"> Hlanganisa uye-20 Susa kusukela-20 Sebentisa timphawu letifanele (+, -, =, □) Kutetayeta ngekuhlanganisa tinombolo uye-10 	<ul style="list-style-type: none"> Hlanganisa uye-99 Susa kusukela 99 Sebentisa timphawu letifanele (+, -, =, □) Kutetayeta ngekuhlanganisa tinombolo uye-20 	<ul style="list-style-type: none"> Hlanganisa uye-99 Susa kusukela 99 Sebentisa timphawu letifanele (+, -, =, □) Kutetayeta ngekuhlanganisa tinombolo uye-30

THLOKO	LIBANGA R	LIBANGA 1	LIBANGA 2	LIBANGA 3
1.14 Kuphindza kuhlanganisa lekuholela ekuphindzaphindzeni		<ul style="list-style-type: none"> Hlanganisa inombolo yinye ngaiokuphindzaphindziwe uye -20 Sebentisa timphawu letifanele (+, =, □) 	<ul style="list-style-type: none"> Phindzaphindza tinombolo-1uye-10 nga 2, 5, 3 na 4 uye kusamba sema-50. Sebentisa timphawu letifanele (+, x, =, □) 	<ul style="list-style-type: none"> Phindzaphindza nobe nguyiphi inombolo nga 2, 3, 4, 5, 10 kwente samba selii100 Sebentisa timphawu letifanele (x, □) Hlukanisa tinombolo tifike e-100 nga-2, 3, 4, 5, 10 Sebentisa timphawu letifanele (+, =, □)
1.15 Kuhlukanisa				
1.16 Tibalo tenhloko	Lwati Iwetinombolo: Kuhleleka-10 Umsebenti ngamunye ucala ngetibalo tenhloko	<ul style="list-style-type: none"> Shano inombolo lengembi kwaenketiwe naletangemuva kwaenketiwe Hlela luhla Iwetinombolo letikhetisiwe letiniketiwe Catsanisa tinombolo urike ema-20 ubuye usho kutsi nguyiphi lenkhulu nobe lencane ngaku-12,3,4,5 nobe li-10 Shaya tanda tikhatsi letinyentii/ letimbawia Ngukuphi kushaya lokunyentii/ lokuncane Nguyiphi inombolo leta kucala/ ngemuva/emkhatsini 	<ul style="list-style-type: none"> Hlela luhla Iwetinombolo letikhetisiwe letiniketiwe Catsanisa tinombolo urike-99 usho kutsi nguyiphi lenkhulu nobe lencane ngaku-1,2,3,4,5 nobe li-10 	<p>Lwati Iwetinombolo: Kuhleleka -99 -1000</p> <p>Khumbula ngekusheshisa:</p> <ul style="list-style-type: none"> Emaciniso ekuhlanganisa nekususa u ye -20 Hlanganisa nobe ususa emamalithiphuli e -10 kusuka -0 uye -100 Emaciniso ekuphindzaphindza tinombolo: <ul style="list-style-type: none"> Lithebulu lekuphindzaphindza ngaku -2 netimphevdulo urike -20 Lithebulu lekuphindzaphindza ngaku-10 netimphevdulo urike -100 Emaciniso ekuhluhanisa tinombolo: <ul style="list-style-type: none"> Hlukanisa ngaku -2 urike -20 Hlukanisa ngeli 10 urike -100

THLOKO	LIBANGAR	LIBANGA 1	LIBANGA 2	LIBANGA 3
1.16	Tibalo tenhloko	Tindlela tekubala Sebentisa tindlela tekubala yekuhlanganisa nekususa letihle:	<ul style="list-style-type: none"> • Cala ngekubeka inombolo lenkhulu kute uchubeke ubale nobe ubale uye emuva. • Umugcatinombolo • Kuphindza nekuhhafula • Kwakha nekuhlahela tinombolo • Kuphindza nekuhhafula • Sebentisa budlewane emkhatsini wekuhlanganisa nekususa 	Tindlela tekubala Sebentisa tindlela tekubala yekuhlanganisa nekususa letihle:
1.17				

**SIBUTSETELO SESIGABA SABOKHEWANE
2. EMAPHETHINI, EMAFANGISHINI NE-ALJEBRA**

Kuttufuka kwemaPhethini, Emafangishini ne-Aljebra

- KumaPhethini, Emafangishini ne-Aljebra, bantfwanा battfola ematfuba eku:
 - Cedzeila babuyęe bachubekisele phambili emaphethini lavela ngetimo letehlukene; ne
 - Bona ubuye uchaze emaphethini.
- Kuchaza emaphethini kwenta sendalelo sekutsi bantfwanा labaseSigabenı lesiseMkhatsini bachaze imitsetfo yemaphethini. Loku kuye kuttufukiswe ku- Aljebra eSigabenı leSiphakeme.

TIHLOKO	LIBANGA R	LIBANGA1	LIBANGA2	LIBANGA 3
2.1 Emaphethini e-Jomethri	Tsatsela ubuye uchubekisele phambili Tsatsela uchubekisele phambili emaphethini lalula usebentisa tintfo letiphatsekako nemidwewebo (sibonele: usebentisa imibala nabobunjwa)	Tsatsela, uchubekisele phambili bese uyachaze Tsatsela, chubekisela phambili ubuye uchaze ngemagama <ul style="list-style-type: none"> • Emaphethini lalula lentiwe ngetintfo letiphatsekako • Emaphethini lalula lentiwe ngemidwewebo yemigca, bobunjwa nobe tintfo. 	Tsatsela, uchubekisele phambili bese uyachaze Tsatsela, chubekisela phambili ubuye uchaze ngemagama <ul style="list-style-type: none"> • Emaphethini lalula lentiwe ngetintfo letiphatsekako • Emaphethini lalula lentiwe ngemidwewebo yemigca, bobunjwa nobe tintfo. 	Tsatsela, uchubekisele phambili bese uyachaze Tsatsela, chubekisela phambili ubuye uchaze ngemagama <ul style="list-style-type: none"> • Emaphethini lalula lentiwe ngetintfo letiphatsekako • Emaphethini lalula lentiwe ngemidwewebo yemigca, bobunjwa nobe tintfo.
2.2 Emaphethini etinombolo	Tsatsela, chubekisela phambili ubuye uchaze Tsatsela, chubekisela phambili ubuye kulandzelana kwetinombolo lokulula kufika ku-100	Tsatsela, chubekisela phambili ubuye uchaze Tsatsela, chubekisela phambili ubuye kulandzelana kwetinombolo lokulula kufika ku-200	Tsatsela, chubekisela phambili ubuye uchaze Tsatsela, chubekisela phambili ubuye kulandzelana kwetinombolo lokulula kufika ku-999	Tsatsela, chubekisela phambili ubuye uchaze Tsatsela, chubekisela phambili ubuye kulandzelana kwetinombolo lokulula kufika ku-999

SIBUTSETELO SESIGABA SABOKHEWANE
3. SIKHALA NABOBUNJWA (IJOMETRI)

Kutuftufuka ngekwesikhala nabobunjwa

Kutuftufuka lokumcoka ngekwesikhala nabobunjwa kutfolakala ngeku:

- Kugcila kutimphawu tabobunjwa netintfo letitsite kuleso naleso sigaba;
- Kuyekela kufundza lulwimi loluphatselene nendzawo nekumatana imibono lehlukene yetintfo letifanako nekufundza ulandzele tinhombandela telibalavemcondvo.

THILOKO	LIBANGA R	LIBANGA 1	LIBANGA 2	LIBANGA 3
3.1	Kubekeka, kutetayeta nekubukaka	<p>Lulwimi Iwekubekaka</p> <p>Chaza kubekaka kquentfo letsite nauyicatsanisa naleny, sibonelo; etukwe, ngembi kwe, ngasesancele se, sekudla se, etulu, phasi, eceleni ne.</p> <p>Kubekaka nekubukaka</p> <ul style="list-style-type: none"> • Bona umatanise emacala lahlukene entfo lefanako yamalanga onke 	<p>Lulwimi Iwekubekaka</p> <p>Chaza kubekaka kquentfo letsite nauyicatsanisa naleny, sibonelo; etukwe, ngembi kwe, ngasesancele se, sekudla se, etulu, phasi, eceleni ne.</p> <p>Kubekaka nekubukaka</p> <ul style="list-style-type: none"> • Bona umatanise emacala lahlukene entfo lefanako yamalanga onke 	<p>Lulwimi Iwekubekaka</p> <p>Chaza kubekaka kquentfo letsite nauyicatsanisa naleny, sibonelo; etukwe, ngembi kwe, ngasesancele se, sekudla se, etulu, phasi, eceleni ne.</p> <p>Kubekaka nekubukaka</p> <ul style="list-style-type: none"> • Bona umatanise emacala lahlukene entfo lefanako yamalanga onke • Nika ligama lento lesjetentiswa malanga onkhe nakukhonjiswa licele lelingaketayekie layo • Fundza, chaza beso udweba libalavemcondvo nome licala langetulu lelicoco letintfo. • Tfola tintfo kubalavemcondvo. <p>Kubekaka netinkhombandela</p> <ul style="list-style-type: none"> • Landzela tinhombandela nawuhambahamba eklassini. • Landzela tinhombandela kusuka endzaweni tsite kuya kuleny • Nika tinhombandela tekuhamba eklassini nasesikolweni.

TIHLOKO	LIBANGAR	LIBANGA 1	LIBANGA 2	LIBANGA 3
3.2	<p>Kuhleleka kwtintfo</p> <p>Bona wati emabito etintfo letingemadayimenshini lamatsatfu(3-D) eklasini nasetitombeni</p> <ul style="list-style-type: none"> • Bobunjwa labayibhola, • Bobunjwa bemabhokisi <p>Timphawu tetintfo</p> <p>Chaza, hlunga ubuye ucatsanise tintfo letingemadayimenshini lamatsatfu (3-D) ngekubuka loku:</p> <ul style="list-style-type: none"> • Isayizi • umbala • tintfo letigicikako • tintfo letishelelako <p>Imisebenti leyentiwako</p> <ul style="list-style-type: none"> • Sebentisa tintfo letingemadayimenshini lamatsatfu (3-D) njengembuhuloki ekwakha, kusettentiswa kabusha, njil kwacha tintfo letitsite, sbonelo: imbihoshongo, emabholoho, njil <p>Kuhleleka kwetintfo</p> <p>Bona wati emabito etintfo letingemadayimenshini lamatsatfu(3-D) eklasini nasetitombeni</p> <ul style="list-style-type: none"> • Bobunjwa labayibhola, (tindilinga) • Bobunjwa bemabhokisi • (emaphrizimu) • Emasiilinda • emaphiramidi • emakhoni <p>Timphawu tetintfo</p> <p>Chaza, hlunga ubuye ucatsanise tintfo letingemadayimenshini lamatsatfu (3-D) ngekubuka loku:</p> <ul style="list-style-type: none"> • bobunjwa labangennada-yimenshini lamabili-(2-D) • labenta buso bentintfo letingemadayimenshini lamatsatfu (3-D) indzawo lendalekile nalegobekile <p>Imisebenti leyentiwako</p> <ul style="list-style-type: none"> • Bona ubuye wakhe tintfo letingemadayimenshini lamatsatfu (3-D) usebentisa tintfo nemabhuki ekwakha, kuvuselela kabusha, tinsita tekwakha. <p>Kuhleleka kwetintfo</p> <p>Bona wati emabito etintfo letingemadayimenshini lamatsatfu(3-D) eklasini nasetitombeni</p> <ul style="list-style-type: none"> • Bobunjwa labayibhola, (tindilinga) • Bobunjwa bemabhokisi • (emaphrizimu) • Emasiilinda • emaphiramidi • emakhoni <p>Timphawu tetintfo</p> <p>Chaza, hlunga ubuye ucatsanise tintfo letingemadayimenshini lamatsatfu (3-D) ngekubuka loku:</p> <ul style="list-style-type: none"> • Isayizi • tintfo letigicikako • tintfo letishelelako <p>Imisebenti leyentiwako</p> <ul style="list-style-type: none"> • bobunjwa labangennada-yimenshini lamabili-(2-D) • labenta buso bentintfo letingemadayimenshini lamatsatfu (3-D) indzawo lendalekile nalegobekile <p>Imisebenti leyentiwako</p> <ul style="list-style-type: none"> • Bona ubuye wakhe tintfo letingemadayimenshini lamatsatfu (3-D) usebentisa tintfo letiphasekako njengabobunwa labangemada-yimenshini lamabili (2-D), lubumba,luvungulo, simunyangaso,letinye tintfo letingemadayimenshini lamatsatfu (3-D) te-Jomethri 	<p>Kuhleleka kwetintfo</p> <p>Bona wati emabito etintfo letingemadayimenshini lamatsatfu(3-D) eklasini nasetitombeni</p> <ul style="list-style-type: none"> • Bobunjwa labayibhola, (tindilinga) • Bobunjwa bemabhokisi • (emaphrizimu) • Emasiilinda • emaphiramidi • emakhoni <p>Timphawu tetintfo</p> <p>Chaza, hlunga ubuye ucatsanise tintfo letingemadayimenshini lamatsatfu (3-D) ngekubuka loku:</p> <ul style="list-style-type: none"> • bobunjwa labangennada-yimenshini lamabili-(2-D) • labenta buso bentintfo letingemadayimenshini lamatsatfu (3-D) indzawo lendalekile nalegobekile <p>Imisebenti leyentiwako</p> <ul style="list-style-type: none"> • bobunjwa labangennada-yimenshini lamabili-(2-D) • labenta buso bentintfo letingemadayimenshini lamatsatfu (3-D) indzawo lendalekile nalegobekile <p>Imisebenti leyentiwako</p> <ul style="list-style-type: none"> • Bona ubuye wakhe tintfo letingemadayimenshini lamatsatfu (3-D) usebentisa tintfo letiphasekako njengabobunwa labangemada-yimenshini lamabili (2-D), lubumba,luvungulo, simunyangaso,letinye tintfo letingemadayimenshini lamatsatfu (3-D) 	<p>Kuhleleka kwetintfo</p> <p>Bona wati emabito etintfo letingemadayimenshini lamatsatfu(3-D) eklasini nasetitombeni</p> <ul style="list-style-type: none"> • Bobunjwa labayibhola, (tindilinga) • Bobunjwa bemabhokisi • (emaphrizimu) • Emasiilinda • emaphiramidi • emakhoni <p>Timphawu tetintfo</p> <p>Chaza, hlunga ubuye ucatsanise tintfo letingemadayimenshini lamatsatfu (3-D) ngekubuka loku:</p> <ul style="list-style-type: none"> • Isayizi • tintfo letigicikako • tintfo letishelelako <p>Imisebenti leyentiwako</p> <ul style="list-style-type: none"> • bobunjwa labangennada-yimenshini lamabili-(2-D) • labenta buso bentintfo letingemadayimenshini lamatsatfu (3-D) indzawo lendalekile nalegobekile <p>Imisebenti leyentiwako</p> <ul style="list-style-type: none"> • Bona ubuye wakhe tintfo letingemadayimenshini lamatsatfu (3-D) usebentisa tintfo letiphasekako njengabobunwa labangemada-yimenshini lamabili (2-D), lubumba,luvungulo, simunyangaso,letinye tintfo letingemadayimenshini lamatsatfu (3-D) 	<p>Kuhleleka kwetintfo</p> <p>Bona wati emabito etintfo letingemadayimenshini lamatsatfu(3-D) eklasini nasetitombeni</p> <ul style="list-style-type: none"> • Bobunjwa labayibhola, (tindilinga) • Bobunjwa bemabhokisi • (emaphrizimu) • Emasiilinda • emaphiramidi • emakhoni <p>Timphawu tetintfo</p> <p>Chaza, hlunga ubuye ucatsanise tintfo letingemadayimenshini lamatsatfu (3-D) ngekubuka loku:</p> <ul style="list-style-type: none"> • bobunjwa labangennada-yimenshini lamabili-(2-D) • labenta buso bentintfo letingemadayimenshini lamatsatfu (3-D) indzawo lendalekile nalegobekile <p>Imisebenti leyentiwako</p> <ul style="list-style-type: none"> • bobunjwa labangennada-yimenshini lamabili-(2-D) • labenta buso bentintfo letingemadayimenshini lamatsatfu (3-D) indzawo lendalekile nalegobekile <p>Imisebenti leyentiwako</p> <ul style="list-style-type: none"> • Bona ubuye wakhe tintfo letingemadayimenshini lamatsatfu (3-D) usebentisa tintfo letiphasekako njengabobunwa labangemada-yimenshini lamabili (2-D), lubumba,luvungulo, simunyangaso,letinye tintfo letingemadayimenshini lamatsatfu (3-D)

TIHLOKO	LIBANGA R	LIBANGA 1	LIBANGA 2	LIBANGA 3
3.3	<p>Bona, utfolu abuye anike emagama abobunjwa bemedayimenshini lamabili eklassini nasetitommibeni kufaka ekhatsi:</p> <ul style="list-style-type: none"> • Timphawu tebafundzi • Ligama lelikiasi 	<p>Kuhleleka Iwabobunjwa</p> <p>Bona ubuye unike bobunjwa letingemadaiyimenshini lamabili (2-D)</p> <ul style="list-style-type: none"> • Indilinga • Calantsatfu • sikwele • calandze <p>Timphawu tabobunjwa</p> <p>Chaza, hlunga ubuye ucatsanise bobunjwa labangemada-yimenshini lamabili (2-D) ngekubuka loku:</p> <ul style="list-style-type: none"> • isayizi • umbala • emacala lacondzile • emacala layindilinga 	<p>Kuhleleka Iwabobunjwa</p> <p>Bona ubuye unike bobunjwa letingemadaiyimenshini lamabili (2-D)</p> <ul style="list-style-type: none"> • indilinga • calantsatfu • sikwele • calandze <p>Timphawu tabobunjwa</p> <p>Chaza, hlunga ubuye ucatsanise bobunjwa labangemada-yimenshini lamabili (2-D) ngekubuka loku:</p> <ul style="list-style-type: none"> • isayizi • umbala • emacala lacondzile • emacala layindilinga 	<p>Kuhleleka Iwabobunjwa</p> <p>Bona ubuye unike bobunjwa letingemadaiyimenshini lamabili (2-D)</p> <ul style="list-style-type: none"> • indilinga • calantsatfu • sikwele • calandze <p>Timphawu tabobunjwa</p> <p>Chaza, hlunga ubuye ucatsanise bobunjwa labangemada-yimenshini lamabili (2-D) ngekubuka loku:</p> <ul style="list-style-type: none"> • isayizi • umbala • emacala lacondzile • emacala layindilinga <p>Dvweba bobunjwa</p> <ul style="list-style-type: none"> • indilinga • calantsatfu • sikwele • calandze
3.4	<p>Umugca lohlukanisa emkhatsini ngalokulinganako nangalokulinganako</p> <ul style="list-style-type: none"> • Bona lokuhulkana emkhatsini kuligane kufananе emtimbeni wakho 	<p>Umugca lohlukanisa emkhatsini ngalokufananako nangalokulinganako</p> <ul style="list-style-type: none"> • Bona lokuhulkana emkhatsini kuligane kufananе emtimbeni wakho 	<p>Umugca lohlukanisa emkhatsini ngalokufananako nangalokulinganako</p> <ul style="list-style-type: none"> • Bona lokuhulkana emkhatsini kuligane kufananе emtimbeni wakho 	<p>Umugca lohlukanisa emkhatsini ngalokufananako nangalokulinganako</p> <ul style="list-style-type: none"> • Bona ubuye udwebe umugca lohlukanisa emkhatsini ngalokufananako nangalokulinganako kubunjwa be-Jomethri nalabo labangasibo be-Jomethri labangemada-yimenshini lamabili (2-D) • Bona ubuye udwebe umugca lohlukanisa emkhatsini ngalokufananako nangalokulinganako kubunjwa be-Jomethri nalabo labangasibo be-Jomethri labangemada-yimenshini lamabili (2-D) • Tfola umugca lohlukanisa emkhatsini ngalokufananako nangalokulinganako ngekugocga liphepha neukhombha

SIBUTSETELO SESIGABA SABOKHEWANE
4. SILINGANISO

TIHLOKO	LIBANGAR	LIBANGA 1	LIBANGA 2	LIBANGA 3
4.1 Sikhatsi	Kundlula kwestikhatsi Khuluma ngekundlula kwestikhatsi • Khuluma ngetintto letentekako emini naletenteka ebusuku. • Bafundzi balandzelanisa tigameko letenteka kubo emini. • Hlela tigameko letivamile tempphilo yabo.	Kundlula kwestikhatsi Khuluma ngekundlula kwestikhatsi • Hlela tigameko letivamile tempphilo yabo. • Cartsanisa budze besikhatsi ngekusebenita lulwimi sib. lokudze, lokufisha, lokujijimako, lokuhamba kancane. • Landzelanisa tigameko usebenita lulwimi sib.tolo, namuhla, kusasa	Kusho sikhatsi Chaza kwenteka kweitinfo ngekusebenita loluwimi sib. eluseni, emini, ntsambama ebusuku, ngesikhatsi, nasemuva kwestikhatsi. • Nikka ngekulandzelanisa emalanga eliviki netinyanya temnyaka. • Faka emalanga ekutalwa ekhalendeni.	Kusho sikhatsi Nika ubuye ulandzelanise emalanga eliviki netinyanya temnyaka. • Fundza tinsuku ekhalendeni. • Faka emalanga ekutalwa, imigidvo yetenkholo, emaholide esive, tigameko lemllandvo, tigameko tesikolo ekhalendeni. • Shano sikhatsi sema-awa laishumi nakubili ngema-awa, ngema-awa lahhafu, ngekota yeli-awa nangemaminithi. • Shano sikhatsi sema-awa laishumi nakubili nge: - ma-awa - hhafu yema-awa - kota yema-awa - maminithi usebenita liwashi letintsi neliwashi letinombolo naletintye tinsita letikhombisa sikhatsi ngetinombolo njengabomakhalekikhikhini.

TIHLOKO	LIBANGA R	LIBANGA1	LIBANGA 2	LIBANGA 3
		Bala budze nekundlula kwasikhatsi	Bala budze nekundlula kwasikhatsi	
		<ul style="list-style-type: none"> Sebentisa ikhalenda kubala nekuchaza budze besikhatsi: - ngemalanga, - ngemaviki - ngetinyanga • Gucula emkhatsini wemalanga nemaviki • Guclu emkhatsini wemaviki netinyanga • Sebentisa liwashi kubala budze besikhatsi: - ngema-awa. - ngehhafu yeli-awa - ikota yema-awa. 	<ul style="list-style-type: none"> Sebentisa ikhalenda kubala budze besikhatsi. - ngemalanga, - ngemaviki - ngetinyanga • Guclu emkhatsini wemalanga nemaviki • Guclu emkhatsini wemaviki netinyanga • Sebentisa liwashi kubala budze besikhatsi: - ngema-awa. - ngehhafu yema-awa - ikota yema-awa. 	<ul style="list-style-type: none"> Sebentisa liwashi kubala budze besikhatsi. - ngema-awa. - ngehhafu yeli-awa - ikota yema-awa.
4.2	Budze	Kukala lokungakahaleleki	Kukala lokungakahaleleki	<ul style="list-style-type: none"> Catsanisa ubuye uhole budze, kuphakama nobe bubanti, betintfo letimbili nobe letinyenti ngekutibeka edvute nalenye. Sebentisa lulwimi kukhuluma ngekucatsanisa sib. lokudze, lokufisha, lokuphakeme, lokubanti. Combela, linganisa, catsanisa, landzelanisa ubuye ubhale budze besilinganiso lesingakahaleleki sib. Impama, lizinga lekwenta, ipeniseli lendze netintfo tekubala. Combela, linganisa, catsanisa, landzelanisa ubuye ubhale budze besilinganiso lesingakahaleleki sib. Impama, lizinga lekwenta, ipeniseli lendze netintfo tekubala. Chaza budze betintfo ngekubala usho budze ngemayuniti langakahaleleki. Chaza budze betintfo ngekubala usho budze ngemayuniti langakahaleleki.

TIHLOKO	LIBANGA R	LIBANGA1	LIBANGA 2	LIBANGA 3
			<p>Kungenisa kukala lokuhlelekile</p> <p>Combela, kala, catsanisa, hlea ubuye urekhode budze usebentisa emamitha (kungaba yindvuku leyimitha, tintsambo letilingana imitha) njengeyunithi lehlelekile yekukala budze.</p> <ul style="list-style-type: none"> • Combela ubuye ukale budze ngemasetnittha. <p>(Awuntijntji emasentimitha uwayise emamithen).</p>	<p>Kungenisa kukala lokuhlelekile</p> <p>Combela, kala, catsanisa, hlea ubuye urekhode sisindvo usebentisa sikali sekulinganisa netilingalinganiso lettingakabekelwa umtsetfo sib. titini, nemabholuki.</p> <ul style="list-style-type: none"> • Combela, kala, catsanisa, hlea ubuye urekhode sisindvo usebentisa sikali sekulinganisa netilingalinganiso lettingakabekelwa umtsetfo sib. titini, nemabholuki. <p>Kukala lokungakahleleki</p> <ul style="list-style-type: none"> • Combela, kala, catsanisa, hlea ubuye urekhode sisindvo usebentisa sikali sekulinganisa netilingalinganiso lettingakabekelwa umtsetfo sib. titini, nemabholuki. • Chaza sisindvo setintfo ngekubala nekusho sisindvo ngemayunithi langakahleleki. • Sebentisa lulwimi kukhulumma ngekucatsanisa sib. Kulula, kuyasindza nobe kusindza kakhulu. • Sebentisa lulwimi kukhulumma ngekucatsanisa sib. Kulula, kuyasindza nobe kusindza kakhulu. <p>Kukala lokungakahleleki</p> <ul style="list-style-type: none"> • Combela, kala, catsanisa, hlea ubuye urekhode sisindvo usebentisa sikali sekulinganisa netilingalinganiso lettingakabekelwa umtsetfo sib. titini, nemabholuki. • Chaza sisindvo setintfo ngekubala nekusho sisindvo ngemayunithi langakahleleki. • Sebentisa lulwimi kukhulumma ngekucatsanisa sib. Kulula, kuyasindza nobe kusindza kakhulu. • Sebentisa lulwimi kukhulumma ngekucatsanisa sib. Kulula, kuyasindza nobe kusindza kakhulu. <p>Kungenisa kukala lokuhlelekile</p> <ul style="list-style-type: none"> • Catsanisa uhlele ubuye urekhode sisindvo setintfo letipakeleiwe kutsengiswia lettiveta sisindvo ngemakhilogrammu sib. Emakhilogrammu lama -2 elayisi, ikhilogrammu yafulawa. - Kala sisindvo sakhe ngemagremu asebentisa sikali sasendlini lencane. <p>(Awuntijntji emasentimitha uwayise kumamitha)</p>
4.3	Sisindvo		<p>Kukala lokungakahleleki</p> <ul style="list-style-type: none"> • Catsanisa ubuye uhlele sisindvo setintfo letimibili nom aletinyenti ngekutiva nobe usebentisa sikali sekulinganisa. • Chaza sisindvo setintfo ngekubala nekusho sisindvo ngemayunithi langakahleleki. • Sebentisa lulwimi kukhulumma ngekucatsanisa sib. Kulula, kuyasindza nobe kusindza kakhulu. • Sebentisa lulwimi kukhulumma ngekucatsanisa sib. Kulula, kuyasindza nobe kusindza kakhulu. 	<p>Kukala lokungakahleleki</p> <ul style="list-style-type: none"> • Combela, kala, catsanisa, hlea ubuye urekhode sisindvo usebentisa sikali sekulinganisa netilingalinganiso lettingakabekelwa umtsetfo sib. titini, nemabholuki. • Chaza sisindvo setintfo ngekubala nekusho sisindvo ngemayunithi langakahleleki. • Sebentisa lulwimi kukhulumma ngekucatsanisa sib. Kulula, kuyasindza nobe kusindza kakhulu. • Sebentisa lulwimi kukhulumma ngekucatsanisa sib. Kulula, kuyasindza nobe kusindza kakhulu. <p>Kungenisa kukala lokuhlelekile</p> <ul style="list-style-type: none"> • Catsanisa uhlele ubuye urekhode sisindvo setintfo letipakeleiwe kutsengiswia lettiveta sisindvo ngemakhilogrammu sib. Emakhilogrammu lama -2 elayisi, ikhilogrammu yafulawa. - Kala sisindvo sakhe ngemagremu asebentisa sikali sasendlini lencane. <p>(Awuntijntji emasentimitha uwayise kumamitha)</p>

TIHLOKO	LIBANGA R	LIBANGA 1	LIBANGA 2	LIBANGA 3
4.4 Umtsamo/Bungako	<p>Kulinganisa lokungakahaleki</p> <ul style="list-style-type: none"> Catsanisa ubuye uhlele umtsamo walokusamanti (bungako) etintfweni tekuphatsa letimbili lethialelene. Bafundzi bahiola ngekutsela entfweni yekuphatsa yesitsattu nakudzingekile. Catsanisa ubuye uhlele umtsamo walokusamanti longatfvalwa tintfo tekuphatsa letimbili natigcwaliwi (umtsamo) Sebentisa lulwimi kukhulumu ngekucatsanisa sib. Kukhulu kuna, kuncane kuna, kugewe, akunalutfo. 	<p>Kulinganisa lokungakahaleki</p> <ul style="list-style-type: none"> Catsanisa ubuye uhlele umtsamo walokusamanti (bungako) etintfweni tekuphatsa letimbili lethialelene. Bafundzi bahiola ngekutsela entfweni yekuphatsa yesitsattu nakudzingekile. Catsanisa ubuye uhlele umtsamo walokusamanti longatfvalwa tintfo tekuphatsa letimbili natigcwaliwi (umtsamo) Sebentisa lulwimi kukhulumu ngekucatsanisa sib. Kukhulu kuna, kuncane kuna, kugewe, akunalutfo. 	<p>Kulinganisa lokungakahaleki</p> <ul style="list-style-type: none"> Combela, kala, catsanisa, hlela ubuye urekhode umtsamo wetintfo tekuphatsa (letingakumumatsa uma tigcwaliwi) ngekusebenitsa tilinganiso letingakabekelva umtsetfo sib. tipunu netinkomishi. Chaza umtsamo wentfo yekuphatsa ngekusho kutsi mangaki emayuniti langakahaleki longawasebenitsa nawugcwalisla lentfo yekuphatsa sib. Libhodlea lelinemtsamo wetinkomishi letine. 	<p>Kulinganisa lokungakahaleki</p> <ul style="list-style-type: none"> Combela, kala, catsanisa, hlela ubuye urekhode umtsamo wetintfo tekuphatsa (letingakumumatsa uma tigcwaliwi) ngekusebenitsa tilinganiso letingakabekelva umtsetfo sib. tipunu netinkomishi. Chaza umtsamo wentfo yekuphatsa ngekusho kutsi mangaki emayuniti langakahaleki longawasebenitsa nawugcwalisla lentfo yekuphatsa sib. Libhodlea lelinemtsamo wetinkomishi letine.

TIHLOKO	LIBANGA R	LIBANGA1	LIBANGA 2	LIBANGA 3
		<p>Kungenisa kulinganisa lokuhlelekile</p> <ul style="list-style-type: none"> • Combela, kala, catsanisa, hlela ubuye urekhode umtsamo wetintfo ngekukala usebentisa emalitha, ihhafu yelitha, nekota yelitha. • Catsanisa, hlela ubuye urekhode umtsamo wetintfo letipakelwe kutsengiswa lovetwe ngemalitha sib. Emalitha lama -2 elubisi, ilitha yesinatfo lesibandzako, emalitha la -5 ependi nobe kuvetwe ngemamillitha sib. 500 emamillitha elubisi, 340 emamillitha esinatfo lesibandzako, 750 emamillitha e-oyila. • Yati kutsi inkomishi lelingene ingemamillitha la -250 • Yati kutsi ithisipunu lelingene ingemamillitha la -5 (Awuntijiji emasentimitha uwayise kumamitha) 	<p>Kungenisa kulinganisa lokuhlelekile</p> <ul style="list-style-type: none"> • Combela, kala, catsanisa, hlela ubuye urekhode umtsamo wetintfo ngekukala usebentisa emalitha, ihhafu yelitha, nekota yelitha. • Catsanisa, hlela ubuye urekhode umtsamo wetintfo letipakelwe kutsengiswa lovetwe ngemalitha sib. Emalitha lama -2 elubisi, ilitha yesinatfo lesibandzako, emalitha la -5 ependi nobe kuvetwe ngemamillitha sib. 500 emamillitha elubisi, 340 emamillitha esinatfo lesibandzako, 750 emamillitha e-oyila. • Yati kutsi inkomishi lelingene ingemamillitha la -250 • Yati kutsi ithisipunu lelingene ingemamillitha la -5 (Awuntijiji emasentimitha uwayise kumamitha) 	<p>Ipherimitha Cwaninga libanga naujijkeleta bobunjwa labangemada-yimenshini lamabili (2-D) netintfo letingemadayimenshini lamatsafu (3-D) usebentisa kucatsanisa okucondzile nobe emayunithi langakahieki.</p> <p>Bungako bendzawo Cwaninga bungako bendzawo ngekuyifaka emathayilisi.</p>

SIBUTSETELO SESIGABA SABOKHEWANE
5. KUSEBENTA NGEDATHA

Kutuffuka eKusebenteni ngeDatha

- Kutuffuka lokumcoka ekusebenteni ngedatha emabangeni onkhe kwentiwa nguloku:
 - Kweddua ekusebenteni ngetintfo kufinyelele ekusebenteni ngedatha, ne
 - Kusebenta ngetimo letisha letimele idathalimidwebo
 - Bafundi kumele basebente ngedatha lejikeletako lephelele lokungenani kanye ngemnyaka-loku kufaka kugcogca nekuhlela idatha, kuveta idatha ngemdwebo, kuhlatiya idatha, kuhumusha idatha nekwefulla umbiko.
- Letinye taletintfo letingenha tekusebenta ngedatha tingabuye tisetjentve tibe imisebenti leyhlukene.

TIHLOKO	LIBANGA R	LIBANGA 1	LIBANGA 2	LIBANGA 3
5.1 Gcogca ubuye uhlela tintfo Gcogca ubuye uhlela tintfo letiphatsekako temalanga onkhe.	Gcogca ubuye uhlela tintfo Gcogca ubuye uhlela tintfo letiphatsekako temalanga onkhe.	Gcogca ubuye uhlela tintfo Gcogca ubuye uhlela tintfo letiphatsekako temalanga onkhe.		
5.2 Veta lugcogco Iwetintfo Iwetintfo letihlungiwe	Veta lugcogco Iwetintfo Iwetintfo Dwweba sitfombe setintfo letigcogiwe	Veta lugcogco Iwetintfo Iwetintfo Kudvweba sitfombe setintfo letigcogiwe		
5.3 Coca ubuye ubike ngetintfo ubike ngetintfo letigcogcw tabuye tahlungwa	Coca ubuye ubike ngetintfo letigcogcw tabuye tahlungwa Kuphendvula imibuto mayelana naloku	Coca ubuye ubike ngetintfo letigcogcw tabuye tahlungwa Kuphendvula imibuto mayelana naloku	<p>Coca ubuye ubike ngetintfo letigcogcw tabuye tahlungwa</p> <ul style="list-style-type: none"> Nika tizatfu kwekutsi kuhlungwe niani lokugcogiwe Phendvula imibuto ngaloku: Kuhlungwe niani lokugcogiwe Umdwebo walokugcogiwe 	<ul style="list-style-type: none"> Kuhlungwe niani (indelancubo) Loko lokugcogiwe kwhaltungwa kujengani (umkhicito) Chaza ngalokugcogiwe na/ umdwwebo Chaza kutsi lokugcogiwe kwahlungwa niani

TIHLOKO	LIBANGA R	LIBANGA 1	LIBANGA 2	LIBANGA 3
5.4	Gcogca ubuye uhlele idatha	Gcogca ubuye uhlele idatha	Gcogca ubuye uhlele idatha	Gcogca ubuye uhlele idatha
		<ul style="list-style-type: none"> Geogca idatha mayelana nelikiasi nobe nesikolo kute uphendvule imibuto lebutwe nguthishela. 	<ul style="list-style-type: none"> Geogca idatha mayelana nelikiasi nobe nesikolo kute uphendvule imibuto lebutwe nguthishela Hlela idatha lenikwe nguthishela nobe libhuku lemsebenti/ncwadzi yemfundzi 	<ul style="list-style-type: none"> Hlela iwtati nge: <ul style="list-style-type: none"> - Tinhla - Timphawu - Temathali - emathebula
5.5	Veta idatha	Veta idatha	Veta idatha	Hlatiya ubuye uhumushe idatha
		<ul style="list-style-type: none"> Veta idatha ngegrafutifombe Kwenteka kuphela kumagrafutifombe lanekucondzana kwalokunye nalokunye 	<ul style="list-style-type: none"> Veta idatha ngegrafutifombe Kwenteka kuphela kumagrafutifombe lanekucondzana kwalokunye nalokunye 	<p>Hlatiya ubuye uhumushe idatha</p> <p>Phendvula imibuto lemayelana nedatha lesegrafinitifombe</p> <ul style="list-style-type: none"> Kwenteka kuphela kumagrafutifombe lanekucondzana kwalokunye nalokunye
5.6	Hlatiya ubuye uhumushe idatha			

3.3 KUCHAZA LOKUTAWUFUNDVWA

Kulesahluko lesitawuchaza lokutawufundvwa, bothishela batawuniketwa loku lokulandzelako:

- Sibutsetelo sethemu yeliBanga R kuya ku-3
- Tihloko letilandzelanako letiphakanyisiwe letihlukaniswe ngetigamu: Akusito tonkhe tincenye taletihloko letitawufundzisa ngethemu ngayinye; letinye tincenye taletinye tihloko tindzinga kufundzisa ngembikwal- etinye ticensye taletotihloko.
- Kuhleleka kahle kwetihloko letiphakanyisiwe ngekwemnyaka.Tihloko talokucuketfwe letinye tidzinga sikhatsi lesinyenti kwengca letinye, ngako-ke letinye tihloko tidzinga sikhatsi lesinyenti kunaletinye
- Emanotsi lachaza lokutsite kanye netindlela tekufundzisa letihamba netibonelo lapho kudzingeke khona.

Loko lokutawufundzisa ngakunye kuhlukaniswe ngetihloko.Loko lokutawufundzisa kumele kufundziswe kutotonke tigamu.Kulandzelanisa kwetihloko ngekwemathemu kusinika umbono wekutsi tihloko tingasabalaliswa njani tibuye tibuketwe umnyaka wonkhe. Akukabaluleki kufundzisa tonkhe tihloko letiphatselene neSikhala nabobunjwa, Silinganiso kanye nekusebentisa Idatha kutotonke tigamu.Ngako- ke tonkhe tihloko kumele tifundziswe ekhatsini wemnyaka.

Esahlukeni sesibili (sicephu 2.6) sisindvo semikhakha yalokucuketfwe siniketiwe.Uma loku kungahlanganisa nema a-awa lakhona emnyakeni umuntfu angakhona kubala ema-awa emkhakha walokucuketfwe ngamunye.

Bothishela bangakhetsa kulandzelanisa kanye nekuhlela sikhatsi salokucuketfwe ngendlela lehlukile kuletiphakamiso letikhona kulesahluko.Bothishela bangakhetsa kuhlela sikhatsi salokucuketfwe ngendlela lehlukile kuletiphakamiso letikhona kulesahluko.Noma kunjalo kumele bangakhohlwa sisindvo kanye nema a-wa laphatselene nemkhakha walokucuketfwe kweTibalo tesigaba Sabokhewane.

- Tibalo letifundvwa **ebangeni R** tisesimeni setibalo leticala kufundvwa ngako-ke atikahlukaniswe ngekwesikhatsi setifundvo.Thishela weliBanga R kumele ahlanganise tibalo naleminye imisebenti yemntwana yemalanga onkhe, nanobe sikhatsi kumele sibekwe eceleni lapho thishela atawugcila emsebentini wetibalo ngelilanga. Nangabe sikhatsi singeke sibekwe eceleni bafundzi angeke bacaphele nobe babe nelutsandvo lwelwati kanye nemakhono.
- Sikhatsi lesiniketiwe emabangeni 1-3 singalendlela:
 - **Ema-awa langu-7 kumele asetjentiselwe Tibalo ngeliviki** (10 wemaviki x 4 wethemu x 7 wema-awa = 280 wema awa ngemnyaka)
 - Sifundvo seTibalo kumele sibe **li-awa linye nemaminithi langema-24 ngelilanga emabangeni 1- 3**
 - Loku kusho kutsi kunetigamu letine temaviki lalishumi kanye netifundvo letisihlanu ngeliviki

(NgeMsombuluko kuya kulesihlanu)

- Kumele kube neliviki lokubetayeta kanye nekuhlanganisa lokutawufundvwa ekucaleni kwethemu, njengoba bafundzi baye bakhohlwe lokunyenti lokufundziwe ngesikhatsi semaholide. Ekupheleni kwethemu ngayinye kumele kube neliviki lapho kutawuhlanganisa lokufundziwe.Loku kutasinika tifundvo letingu 160, 8 x 4 x 5 = 160

3.4 KULANDZELANISA TIHLOKO KANYE NEKUHLELA TIHLOKO NGEKWESIKHATSI

Lamathebula lalandzelako aniketiwe esigabeni ngasinye kusigaba R -3:

- Kuhlelwa kwetihloko ngekwesikhatsi umnyaka wonkhe (loku kukhombisa kusabalalisa tihloko kutotonkhe tigamu bese kubekwa bungako besikhatsi lokumele sicitfwe esihlokweni ngasinye lesiphatselene nemkhakha walokucuketfwe).
- Kulandzelanisa tihloko ngekwemnyaka (loku kukhombisa kutsi tihloko tabiwe njani kuthemu ngayinye kanye nekutfutfuka kwelwati nemakhono kuwo onkhe emathemu).
- Emanotsi lachaza lokutsite ngekvesihloko ngasinye-lamathebula asinika Iwati lolucacisiwe kanye netindlela tekufundzisa tesihloko ngasinye njengoba tilandzelana kuwo onkhe emathemu.

Luhlelo Sifundvo-Kwabiwa kwetihloko ethemini ngayinye

Tinombolo sihloko lesibalulekile esifundvweni seTibalo esigabeni saboKhewane. Esikhatsini lesinyenti evikini ngalinye, kuthemu kanye nasemnyakeni wonkhe kusuke kugcilwe kuTinombolo,Timphawu tekubala kanye Nebudlelwane. Tifundvo tetibalo letintsaftu nobe letingetulu evikini ngalinye kumele tigcile esifundvweni seTinombolo,Timphawu tekubala kanye Nebudlelwane.Sikhatsi lesisele kumele sihlukaniselwe leminye imikhakha yalokucuketfwe.

Sikhala naBobunjwa kanye neSilinganiso kudzinga sikhatsi lesinyenti kanye nekunakwa kwendlula Kusebenta ngeDatha kanye nemaPhethini, eMafangishini kanye ne Aljebra.Lamathebula langentasi asinika Iwati Iwekutsi tingaki tifundvo lekumele sitabele umkhakha walokucuketfwe ngamunye kanye netihloko ebangeni ngalinye kuMaphethini,eMafangishini kanye ne-Aljebra,Sikhala nabobunjwa,Silinganiso kanye nekusebentisa Idatha.

Kwabiwa kwemikhakha yalokucuketfwe kanye netihloko tetifundvo eBangeni R

Njengoba Tibalo teliBanga R tisesimeni setibalo leticala kufundvwa, leSikhatsi lesiphakanyisiwe sekufundza lesitawabiwa lesilandzelako sitawusetjentiselwa sifundvo seTibalo lekugcilwe kuso kanye nemisebenti lengakahlelwa. Loku kutawenta sicianiseko sekutsi wonkhe umsebenti lokhona wentiwe.Umsebenti wetibalo leticala kufundvwa, ungaba kubala linani letindishi kanye netinkomishi labatatisebentisa ngesikhatsi sekudla, kubala linani lemidlalo ledlalwe ngaphandle, imidlalo ledlalwe ngekhatsi endlini yekufundzela, lefana nemaphazili, emadominosi, njll. Thishela kumele ahlele imisebenti yakhe ngekwetidzingo tebafundzi bakhe kanye netinsita letikhona endlini yakhe yekufundzela.

- **Bobunjwa kanye nesikhala** yincenyе lebalulekile yekutfutfuka kwetibalo temfundzi losemcane, lekumele isabalaliswe liviki lonkhe, kanye naleminye imisebenti lekugcilwe kuyo lesesandleni sathishela, kanye nematfuba ekwakha tintfo letitsite, kudlala ngemanti nesanti kwebafundzi.
- **Silinganiso** kumele sihlanganiswe nemisebenti yekubala, kucombela nekubala nangabe ulinganisa budze ngetandla, ngetinyawo kanye netinyatselo.
- Irejista yeliklasi kanye nelishadi lesimo selitulu kusinika sikhatsi lesanele sekusebenta ngeDatha.

Lithebula 3.1: Sikhatsi lesiniketiwe semkhakha walokucuketfwe ngeliviki

Umkhakha walokucuke tfwe	Sihloko	Sikhatsi lesiphakanyisiwe
Tinombolo, timphawu tekubala nebuldelwane	Kubala Kubona tinombolo Kubona nekuchaza tinombolo letiphelele Kwati tinombolo Kucatulula tinkinga tetibalo	120 emaminithi
Emaphethini,emafangishini ne-Algebra	kutsatsela, kucedzela nekutakhela emaphethini akhe	80 emaminithi
Sikhala nabobunjwa (iJomethri)	Kubona nekubita bobunjwa 2-D netifombe Bobunjwa be-Jomethri Kwakha tintfo letingemadayimenshini lamatsatfu (3-D) usebentisa tintfo letiphatsekako Budlelwane bendzawo Inkhombandlela	80 emaminithi
Silinganiso	Sikhatsi Budze Siindvo Umtsamo	80 emaminithi
Kusebenta ngeDatha	Kugcogca, kuhlunga, kudvweba, kufundza nekukhombisa idatha	60 emaminithi
SAMBA		420 emaminithi 7 ema-awa ngeliviki

- Kwabiwa kwemkhakha walokucuketfwe netihloko etifundvweni teLiBanga 1 kuye ku -3**

Ngalokulingene, tifundvo letintsatfu (emkhatsini wa 4 na $4\frac{1}{2}$ wema-awa) ngeliviki tisetjentiswa kutinombolo, timphawu tekubala nebuldelwane emaBangeni 1, 2 na 3. Tifundvo letimbili letisele (sib. Emkhatsini wa $2\frac{1}{2}$ na 3 wema-awa) tihlukaniswa emkhatsini wetihloko taleminye imikhakha yalokucuketfwe ngendlela lephakanyiswe ngentasi.

TIBALO LIBANGA R

Lithebula 3.2: Linani letifundvo letiphakanyisiwe temkhakha walokucuketfwe ngethemu yeLiBanga 1

UMKHAKHA WALOKUCUKETFWE		SIHLOKO	Ithemu 1	Ithemu 2	Ithemu 3	Ithemu 1	Inombolo yetifundvo Linani
Tinombolo, timphawu tekubala nebudlelwane		Tonkhe tihloko tetinombolo, imisebenti nebudlelwane	22	30	28	25	105
Emaphethini, emafangishini ne-Algebra	Emaphethini etinombolo	3	3	3	3	3	12
	Emaphethini e-Jomethri	1	1	1	1	1	4
Sikhala nabobunjwa (iJomethri)	Bobunjwa be 2-D			3		3	6
Tintfo letingemadayimenshini lamatsatfu (3-D)			3		2	1	6
	Indzawo, kubekaka nemacula	2				1	3
	Kuhlukanisa emkhatsini kulingane, kufanane				1	1	2
Silinganiso	Sikhatsi	2					2
	Budze	2			2		4
	Sisindvo	2				2	4
	Umtsamo	1	2			1	4
Kusebenta ngedatha	Kugcogca, kuhlunga, kuveta nekuhluta tintfo	2	1				3
	Umjikeleto wedatha legcwele				3		3
	Tincenye temjikeleto wedatha					2	2
Linani letifundvo		40	40	40	40	40	160

Lithebula 3.3: Linani letifundvo letiphakanyisiwe temkhakha walokucuketfwe ngethemu yeLiBanga 2

UMKHAKHA WALOKUCUKETFWE		SIHLOKO	Ithemu 1	Ithemu 2	Ithemu 3	Ithemu 4	Inombolo yetifundvo Linani
Tinombolo, timphawu tekubala nebudlelwane		Tonkhe tihloko tetinombolo, imisebenti nebudlelwane	24	25	24	26	99
Emaphethini, emafangishini ne-Algebra	Emaphethini etinombolo	3	3	3	3	3	12
	Emaphethini e-Jomethri	1	1	1	1	1	4
Sikhala nabobunjwa (iJomethri)	Bobunjwa labangemadayi- menshini lamabili (2-D)			3		3	6
	Tintfo letingemadayimenshini lamatsatfu (3-D)	3			2	1	6
	Indzawo, kubekaka nemacula			2	1		3
	Kuhlukanisa emkhatsini kulingane, kufanane			1		1	2
Silinganiso	Sikhatsi	3	1	3	1	1	8
	Budze	3				1	4
	Sisindvo		3			1	4
	Umtsamo				3	1	4
Kusebenta ngedatha	Umjikeleto wedatha legcwele	3			3		6
	Tincenye temjikeleto wedatha			1		1	2
Linani letifundvo		40	40	40	40	40	40

Lithebula 3.4: Linani letifundvo letiphakanyisiwe temkhakha walokucuketfwe ngethemu yeLiBanga 3

UMKHAKHA WALOKUCUKETFWE	SIHLOKO	Inombolo yetifundvo				
		Ithemu 1	Ithemu 2	Ithemu 3	Ithemu 4	Linani
Tinombolo, timphawu tekubala nebullelwane	Tonkhe tihloko tetinombolo, imisebenti nebullelwane	26	22	19	27	94
Emaphethini, emafangishini ne-Algebra	Emaphethini etinombolo	3	3	3	3	12
	Emaphethini e-Jomethri	1	1	1	1	4
Sikhala nabobunjwa (iJomethri)	Bobunjwa be 2-D	2		2		4
	Tintfo letingemadayimenshini lamatsatfu (3-D)		3	3	1	7
	Indzawo, kubekaka nemacula		2	3		5
	Kuhlukanisa emkhatsini kulingane, kufanane		2		1	3
Silinganiso	Sikhatsi	3	2	3	2	10
	Budze		2	2		4
	Sisindvo		2		1	3
	Umtsamo	2			1	3
	Ipherimitha			1		1
	Bungako bendzawo				2	2
Kusebenta ngedatha	Umjikeleto wedatha legcwele	3		3		6
	Tincenye temjikeleto wedatha		1		1	2
Linani letifundvo		40	40	40	40	40

- Sibutsiselo sethemu Libanga R

KUBALA	Tihoko	ITHEMU 1	ITHEMU 2	ITHEMU 3	ITHEMU 4
1.1	Bala tintfo Combela ubuye ubala tintfo kutfukisa lwati iwetinombolo	<p>Kuhleleka kwetinombolo: 1-5</p> <ul style="list-style-type: none"> Kucondzana emkhatsini wetintfo nekuvetwa kwato Kwetfula lishadi lemsiti nendela lokukewetwa ngayo, ngekulandzelana Bala ngakunye - Tinsita letiphatsekako - Tiffo temtimba - Shaya tanda - Shaya phasi ngelunyawo - Canca titepisi - Bala ngenhloko - imiloloteloo netingoma tetinombolo 	<p>Kuhleleka kwetinombolo: 1-7</p> <ul style="list-style-type: none"> Kucondzana emkhatsini wetintfo nekuvetwa kwato Tfutufukisa lishadi lemsiti malanga onkhe Bala ngakunye - Tinsita letiphatsekako - Tiffo temtimba - Shaya tanda - Shaya phasi ngelunyawo - Canca titepisi - Bala ngenhloko - imiloloteloo netingoma tetinombolo 	<p>Kuhleleka kwetinombolo: 1 to 10</p> <ul style="list-style-type: none"> Kucondzana emkhatsini wetintfo nekuvetwa kwato Tfutufukisa lishadi lemsiti malanga onkhe Bala ngakunye - Tinsita letiphatsekako - Tiffo temtimba - Shaya tanda - Shaya phasi ngelunyawo - Canca titepisi - Bala ngenhloko - imiloloteloo netingoma tetinombolo 	<p>Kuhleleka kwetinombolo: 0- 10</p> <ul style="list-style-type: none"> Kucondzana emkhatsini wetintfo nekuvetwa kwato Tfutufukisa lishadi lemsiti malanga onkhe Bala ngakunye - Tinsita letiphatsekako - Tiffo temtimba - Shaya tanda - Shaya phasi ngelunyawo - Canca titepisi - Bala ngenhloko - imiloloteloo netingoma tetinombolo
1.2	Bala uye embili nasemuva	Kuhleleka kwetinombolo: 1 kuye ku- 4 Bala lokungakahaleki usebentisa imiloloteloo netingoma tetinombolo, tibali, tintfo letiyi 3-D, kubala ngekunyakata kwentimba nesicanco setinombolo	Kuhleleka kwetinombolo: 1 kuye ku- 7 Bala lokungakahaleki usebentisa imiloloteloo netingoma tetinombolo, tibali, tintfo letiyi 3-D, kubala ngekunyakata kwentimba nesicanco setinombolo	Kuhleleka kwetinombolo: 0 kuye kuli- 10 Bala lokungakahaleki usebentisa imiloloteloo netingoma tetinombolo, tibali, tintfo letiyi 3-D, kubala ngekunyakata kwentimba nesicanco setinombolo	Kuhleleka kwetinombolo: 0 kuye Bala nga: <ul style="list-style-type: none"> kunye kubili

Thioko	I THEMU 1	I THEMU 2	I THEMU 3	I THEMU 4
1.3 Timphawu tetinombolo nemagama etinombolo (Kubona ubuye wati timphawu tetinombolo nemagama etinombolo)	<p>Kuhleleka kwetinombolo</p> <ul style="list-style-type: none"> • Timphawu tetinombolo ku-1 • Tinombolomagama: one - Kubona ubuye wati timphawu tetinombolo nemagama etinombolo - Kuhleleka kwetinimbaba - (lokventiwa ngemtimba) - Lokuphatsekako lokutintfo letima 3-D letifaka ekhatsi inombolo 2, ku-1. - Lokubonakalako ungeke ukuphatse lokunemakhadi tifombe lokufaka ekhatsi inombolo 2, 3 na 4 - Lokubonakalako ungeke ukuphatse lokunemakhadi emacashati lanetinombolo ku-1. • Tuffukisa lwati lolutfoliwe lolufaka ekhatsi inombolo ku-1 	<p>Kuhleleka kwetinombolo</p> <ul style="list-style-type: none"> • Timphawu tetinombolo: 2 kuye ku-4 • Tinombolomagama: kubili, kutsatfu,kune - Kunyakata kwetimtimba - (lokventiwa ngemtimba) - Lokuphatsekako lokutintfo letima 3-D letifaka ekhatsi inombolo 2, 3 na 4. - Lokubonakalako ungeke ukuphatse lokunemakhadi tifombe lokufaka ekhatsi inombolo 5,6 ne 7 - Lokubonakalako ungeke ukuphatse lokunemakhadi emacashati lanetinombolo 2, 3 na 4. • Tuffukisa lwati lolutfoliwe lolufaka ekhatsi inombolo ku-1 kuye ku-4 	<p>Kuhleleka kwetinombolo</p> <ul style="list-style-type: none"> • Timphawu tetinombolo: 5 kuye ku-7 • Tinombolomagama: sihanu, sifupha, inkhotsa - Kunyakata kwetimtimba - (lokventiwa ngemtimba) - Lokuphatsekako lokutintfo letima 3-D letifaka ekhatsi inombolo 5, 6 ne 7. - Lokubonakalako ungeke ukuphatse lokunemakhadi tifombe lokufaka ekhatsi inombolo 0, 8, 9 ne 10. - Lokubonakalako ungeke ukuphatse lokunemakhadi emacashati lanetinombolo 0,8,9 ne 10 • Tuffukisa lwati lolutfoliwe lolufaka ekhatsi inombolo li 0 kuye e 10 	<p>Kuhleleka kwetinombolo</p> <ul style="list-style-type: none"> • Timphawu tetinombolo: 5 kuye ku-7 • Tinombolomagama: licandza, sipholongo, imfica,lishumi - Kunyakata kwetimtimba - (lokventiwa ngemtimba) - Lokuphatsekako lokutintfo letima 3-D letifaka ekhatsi inombolo 0, 8, 9 ne 10.

Tihoko	ITHEMU 1	ITHEMU 2	ITHEMU 3	ITHEMU 4
LWATI LWETINOMBOLO (BUDLELWANE)				
1.4 Chaza, ucatsanise ubuye uhlele tinombolo (Sebentisa tinombolo kutimo letetayelekile)	Sebentisa tinombolo kutimo letetayelekile <ul style="list-style-type: none">Umfundzi kufanele ayati inombolo yendlu nelikheli lakubo.	Sebentisa tinombolo kutimo letetayelekile <ul style="list-style-type: none">Gcwalisa irejista yemalanga onkhe. Sebentisa tindelia letehlukene uma usebenta ngerejista sib.<ul style="list-style-type: none">- Ngabe umfundzi loneluphawu/ sitfombe se-ayisikhilim ukhona yini namuhla?- Ngabe umfundzi lonelibito lelinguSipho ukhona yini namuhla?- Ngabe umfundzi lonelibito lelinguSipho Alexander nesibongo sakamatio ukhona yini namuhla?Bona tinombolo kumakhadititfombe nakumakhadi emacashati.<ul style="list-style-type: none">• Dlala imidalo yemakhaditinombolo.• Bona tinombolo letifolakala kutikhangisi/emafulaya, nemakhadi ekutaiwa lamadzala njll.	Sebentisa tinombolo kutimo letetayelekile <ul style="list-style-type: none">Umfundzi kufanele ayati inombolo yelucingoyamakhelekhukhwini yakubo (inombolo yekuchumana nebatali) <ul style="list-style-type: none">Tfutufukisa kusettentiswa kwetinombolo ngekugcwalisira irejista yemalanga onkhe njengakuthemu yekucala sib. Bangaki bafundzi; labalovile namuhla? Singakutfolka kanjani? Bafundzi bacocisana ngaloku bona ngekwabo.<ul style="list-style-type: none">- Combela;- Bala emalokha langenalutfo;- Bala titulo letingenalutfo njll.Ngabe umfundzi lohlala endlini lengunombolo 123 ukhona yini namuhla?<ul style="list-style-type: none">- Ngabe umfundzi lohlala esitaladini lesingew Wendy kunombolo 123.- Ngabe umfundzi lonenombolo yelucingoyamakhekhinii 0821234567 ukhona yini namuhla.Bona tinombolo kumakhadititfombe nakumakhadi emacashati.<ul style="list-style-type: none">• Dlala imidalo yemakhaditinombolo.• Bona tinombolo letifolakala kutikhangisi/emafulaya, nemakhadi ekutaiwa lamadzala njll.	Sebentisa tinombolo kutimo letetayelekile <ul style="list-style-type: none">Tfutufukisa kusettentiswa kwetinombolo ngekugcwalisira irejista yemalanga onkhe njengakuthemu yekucala sib. Ngabe umfundzi logubha lusuku lwake lwekutaiwa mhlaka 16 Indlovulenkhulu ukhona yini namuhla?- Ngabe umfundzi lohlala endlini lengunombolo 123 ukhona yini namuhla?- Ngabe umfundzi lohlala esitaladini lesingew Wendy kunombolo 123.- Ngabe umfundzi lonenombolo yelucingoyamakhekhinii 0821234567 ukhona yini namuhla. <ul style="list-style-type: none">Bona tinombolo kumakhadititfombe nakumakhadi emacashati.<ul style="list-style-type: none">• Dlala imidalo yemakhaditinombolo.• Bona tinombolo letifolakala kutikhangisi/emafulaya, nemakhadi ekutaiwa lamadzala njll.

Tihloko	ITHEMU 1	ITHEMU 2	ITHEMU 3	ITHEMU 4
LWATI LWETINOMBOLO (BUDLELWANE)				
1.4	Kuhleleka kwetinombolo: 1 Chaza, ucatsanise ubuye uhlele tinombolo (Bona ubuye uchaze tinombolo letiphelele)	Kuhleleka kwetinombolo: 1 kuye 5 • Bona ubuye uchaze tinombolo letiphelele kuye ku-1	Kuhleleka kwetinombolo: 1 kuye 7 • Bona ubuye uchaze tinombolo letiphelele, 2, 3 na 4 • Tfutufkisa tinombolo 1 kuye ku-4	Kuhleleka kwetinombolo: 0 • Bona ubuye uchaze tinombolo letiphelele 8, 9, 10 ne 0 • Tfutufkisa tinombolo 0 kuye e 10
Ucatsanisa kutsi ngukuphi kwaletintffo letimbili letigcogciwe leti: a) nkulu naletincane b) letikhudlwane naletimbala c) letincane kakhulu naletinkukhulu kakhulu	Ucatsanisa kutsi ngukuphi kwaletintffo letimbili letigcogciwe leti: a) Lokunyenti kuna b) Lokuncane kuna c) Lokulingana na (lokulinanako) Tinombolo te-odinali	Ucatsanisa kutsi ngukuphi kwaletintffo letimbili letigcogciwe leti: a) nkulu naletincane b) letikhudlwane naletimbala c) letinkukhulu kakhulu letincane kakhulu (ingenisa lolwati) • Hela tinto letigcogciwe letingetulu kwaletimbili ticale kuloskuncane kakhulu kuye kuloskukhulu kakhulu nakuloskukhulu kakhulu kuye kuloskuncane kakhulu	Ucatsanisa kutsi ngukuphi kwaletintffo letimbili letigcogciwe leti: a) Lokunyenti kuna b) Lokuncane kuna c) Lokulingana na (lokulinanako) Tinombolo te-odinali	Cikelela kuttuffukisa kwetinombolo te-odinali letingakahaleeki , sib. Kwekucala, kwestifatu, kwekugcina, lokusedvute. • Ngenisa ngesikharti Sekudla lokulula / netintffo letentiva malanga onkhe kanye nekuya endlini lencane kwamalanga onkhe-kwekucala, kwestifatu, kwekugcina, nalokulandzelako
				Cikelela kuttuffukisa kwetinombolo te-odinali letingakahaleeki, sib. Kwekucala, kwestifatu, kwekugcina, lokusedvute. • Kunyenti kuna, kuncane kuna, kulingana na • Lokunyenti nalokumbalwa sib. Kushaya tandla lokungakahaleeki. Kubuta umbuto lobewuvamile/ ubutwe kancane Cikelela kuttuffukisa kwetinombolo te-odinali letingakahaleeki, sib. Kwekucala, kwestifatu, kwekugcina, lokusedvute.
				• Kunyenti kuna, kuncane kuna, kulingana na • Lokunyenti nalokumbalwa sib. Kushaya tandla lokungakahaleeki. Kubuta umbuto lobewuvamile/ ubutwe kancane Cikelela kuttuffukisa kwetinombolo te-odinali letingakahaleeki, sib. Kwekucala, kwestifatu, kwekugcina, lokusedvute. • Ngenisa tinombolo te-odinali - kwekucala, kwestifatu, kwekugcina, lokusedvute. • Ngenisa tinombolo te-odinali - kwekucala, kwestifatu, kwekugcina, lokusedvute. • Ngenissa tinombolo te-odinali - kwekucala, kwestifatu, kwekugcina, lokusedvute.

Tihoko	ITHEMU 1	ITHEMU 2	ITHEMU 3	ITHEMU 4
1.4	Chaza, ucatsanise ubuye uhlele tinombolo	<ul style="list-style-type: none"> Tfutufukisa tinombolo te-odinali letingakahleki ngekusebentisa tintfo letentiwa malanga onkhe rawuya endlini lencane Kwentiwe nangesikhatsi sekututufukisa imisebenti yemaKhono ekuPhilia nangesikhatsi semisebenti yekwenta buciko (nangabe kufanele) 	<ul style="list-style-type: none"> Tfutufukisa tinombolo te-odinali letingakahleki ngekusebentisa tintfo letentiwa malanga onkhe rawuya endlini lencane Kwentiwe nangesikhatsi sekututufukisa imisebenti yemaKhono ekuPhilia 	<ul style="list-style-type: none"> Tfutufukisa tinombolo te-odinali letingakahleki ngekusebentisa tintfo letentiwa malanga onkhe rawuya endlini lencane Kwentiwe nangesikhatsi sekututufukisa imisebenti yemaKhono ekuPhilia
1.6	Emasu ekusombulula tinkinga tetibalo (usebentisa lamasu netindieia letilandzelako)	<ul style="list-style-type: none"> Usebentisa lamasu letilandzelako Tintfo letiphatsekako sib. tibali 	<ul style="list-style-type: none"> Usebentisa lamasu letilandzelako Tintfo letiphatsekako sib. Tibali Sitepisi setinombolo 	<ul style="list-style-type: none"> Usebentisa lamasu letilandzelako Tintfo letiphatsekako sib. Tibali Sitepisi setinombolo
1.7	Kuhlanganisa nekususa (Sombulula tibalo temagama ngekutisho[tibalo tendzaba] uchaze tisombuluo tekubala	<ul style="list-style-type: none"> Sebentisa tibali bese usombulula tinkinga tetibalo ngekusho letifaka ekhatsi tinombolo 2, 3 na- 4 Tfutufukisa kusombulula tinkinga tetibalo letifaka ekhatsi tinombolo 1 kuya ku- 4 	<ul style="list-style-type: none"> Sebentisa tibali bese usombulula tinkinga tetibalo ngekusho letifaka ekhatsi tinombolo 5,6 ne- 7 Tfutufukisa kusombulula tinkinga tetibalo letifaka ekhatsi tinombolo 1 kuya ku- 7 	<ul style="list-style-type: none"> Sebentisa tibali bese usombulula tinkinga tetibalo ngekusho letifaka ekhatsi tinombolo 8, 9 ne- 0 Tfutufukisa kusombulula tinkinga tetibalo letifaka ekhatsi tinombolo 1 kuya e- 10
1.9	Kuggogcela ndzawonye nekuba lokuholeia ekuhlukaniseni (kwabelana ngalokulinganako nekuggogcelandzawonye ngetinombolo tetiphelele letifika e 10 letinetimpwendvulo letifaka ekhatsi tinsaleia)			

Tihloko	ITHEMU 1	ITHEMU 2	ITHEMU 3	ITHEMU 4
1.11 Imali	Imali	<ul style="list-style-type: none"> Tfutufukisa Iwati ngemali yebuhhehu yase Ningizimu Afrika. 20c, 50c, R1, R2, R5 Bona umbala nekusho kutsi ngusiphi silwane lesivela emalini ngayinye yebuhhehu Bona lokufanako nalokwehlukile emkhatsini wemali yemaphheha sib. Hlunga imali yekudlala Niketa imali yekudlala ekhoneni lekudlala 	<ul style="list-style-type: none"> Tfutufukisa Iwati ngemali yemaphheha yemamabhangase Ningizimu Afrika. R10, R20, R50, R100, R200, Bona lokufanako nalokwehlukile emkhatsini wemali yemaphheha sib. Hlunga imali yekudlala 	Imali
KUBALA USEBENTISA	1.13 Kuhlanganisa nekususa (Usombulula tinkinga tetibalo tekuhianganisa nekususa ngemlomo letinemphevdu loletifika e-10)	Usombulula ngemlomo tinkinga tetibalo tekuhianganisa nekususa ngemlomo letinemphevdu letifika ku-4	Usombulula ngemlomo tinkinga tetibalo tekuhianganisa nekususa ngemlomo letinemphevdu letifika ku -7	Usombulula ngemlomo tinkinga tetibalo tekuhianganisa nekususa ngemlomo letinemphevdu letifika e -10

Tinhlobo tetinkinga tetibalo teliBanga R

Tinkinga tetibalo letiba khona kubafundzi beliBanga R tifaka ekhatsi intfo yinye kuleti letikhona eklasini sib.tibali, bantfwana, ticatfula hhayi emaswidi, ligundvwane, timbali njll. Akusibo bonkhe bantfwana labancane labangavuma kutsi tibali noma tingalo tingemagundvwane, badzinga kubona lentfo. Thishela angasebentisa titfombe nasekulthemu lesincane. Tintfo letiphatsakeko kumelwe tigcinwe-titfombe tekungetelela hhayi kuvala tintfo letiphatsekako.

Tindvuku tekubala tingasetjentiswa nangabe thishela angenato tinsita

Letinhlobo tetinkinga tetibalo letivetiwe kumele tibe sezingeni lemntfwana kute akhone kutivisia

Kugcogcela ndzawonye

Kunemakokisi lasiphohlongo. (Thishela ubeka tibali letisiphohlongo, noma abakhombe titfombe temakokisi lasiphohlongo) Teddy utfola emakokisi lamabili onkhe emalanga. Mangaki emalanga latawutfola ngawo emakokisi.

Kwaba

Kunemakokisi lasiphohlongo. (Thishela ubeka tibali letisiphohlongo noma abakhombe titfombe temakokisi lasiphohlongo) BoTeddy labatsatfu (3) bonkhe batfole emakokisi lalinganako. Munye utawutfola emakokisi mangaki ?

Kuhlanganisa, kususa nekuphindza kuhlanganisa

Mangaki emehlo ebantfwana lababili sekawonkhe?

Tingaki tindlebe tebantfwana labane setitonkhe?

Tingaki tingalo esandleni sinye?

Tingaki tingalo talelesinye sandla?

Linda unetibali letisitfupha, uniketa Colane tibali letimbili utawusala natingaki?

Bothishela bafanele bahlanganise tinhlobo tetinkinga tetibalo ngawo onkhe emalanga. Kumele banete kancane tisyizi tetinombolo lebatisebentisako etinkingeni, singatsatsi malula sitsi umntfwana angeke asebente ngetinombolo letinkhulu.

SIBUTSETELO SELIBANGA R		2. EMAPHETHINI NEMAFANGISHINI		
THLOKO	ITHEMU 1	ITHEMU 2	ITHEMU 3	ITHEMU 4
2.1 Emaphethini e-Jomethri (Tsatsela ubuye uchubele embili emaphethini lalula usebentisa tintfo letibonakalako nemidwebo) (Kutakhela emaphethini latiphindzako)	<ul style="list-style-type: none"> Tfola emaphethini lasetimphapleni, etintfweni, nasendzaweni letsite. Tsatsela ubuye ucedzele emaphethini. Tsatsela emaphethini lowentiwa kushayisana kwetiffo temtimba umtimbaba. Tsatsela, cedzela ubuye utakhele emaphethini. 	<ul style="list-style-type: none"> Tsatsela, chubela phambili ubuye utakhele emaphethini etimviwa. Tsatsela iphetini ioniketwe yona usebentisa inali lebuhhehlu. 	<ul style="list-style-type: none"> Tsatsela, chubela phambili ubuye utakhele emaphethini lanettfombe. 	<ul style="list-style-type: none"> Tsatsela, chubela phambili ubuye utakhele emaphethini etimviwa. Tsatsela emaphethini emsindvo. Dilara undhalo ngephethini yekudlala sikoshi.

SIBUTSETELO SELIBANGA R		3. SIKHALA NABUNJWA (IJOMETHRI)		ITHEMU 4	
TIHLOKO	ITHEMU 1	ITHEMU 2	ITHEMU 3	ITHEMU 4	
3.1	Kubekeka, kutetayeta nekubukeka Kuchaza info lengemadaiyimenshini lamatsattu (3-D) uyihlobanisa nalenye (sib. 'phambili nangemuva)	Budlelwane bentfo nendzawo Kusebentisa tintfo letimbili nobe letinyentti umfundzi lanebudlelwane nato <ul style="list-style-type: none"> Embikwe- nangemuva Ngetulu nangaphasi Ngekhatsi nangaphandle Etulu naphasi Edvute nasemkhatsini Sancelle neseckudla Umsebenti webhodi yekunamatselisa Umdhalo wangaphandle ubalulekile. Ijangilijimu ingasetjetniswa kutfutufukisa, sib. <ul style="list-style-type: none"> Lwati lwetibalo Buciko bekwenta Kutfutufukisa kutivocavoca 	Budlelwane bentfo nendzawo Kusebentisa tintfo letimbili nobe letinyentti umfundzi lanebudlelwane nato <ul style="list-style-type: none"> Embikwe- nangemuva Ngetulu nangaphasi Edvute ne, emkhatsini nemkhatsi Sancelle neseckudla Umsebenti webhodi yekunamatselisa Chaza tintfo etimeni letehlukene, sib. umdoli, indlu lesphambili, lesemuva, lesemaceleni kuye ngekutsi ume njani <ul style="list-style-type: none"> Ibhodi yekunamatsisela Embikwe nangemuva Ngetulu nangaphasi nobe ngentasi Edvute ne, emkhatsini nemkhatsi Sancelle neseckudla 	Budlelwane bentfo nendzawo Kusebentisa tintfo letimbili nobe letinyentti umfundzi lanebudlelwane nato <ul style="list-style-type: none"> Embikwe- nangemuva Ngetulu nangaphasi Edvute ne, emkhatsini nemkhatsi Sancelle neseckudla Umsebenti webhodi yekunamatselisa Kubekeka kwetintfo letimbili nobe letinyentti letinebulelwane kulenye naleyne <ul style="list-style-type: none"> Ibhodi yekunamatsisela Embikwe nangemuva Ngetulu nangaphasi nobe ngentasi Edvute ne, emkhatsini nemkhatsi Sancelle neseckudla 	
				<ul style="list-style-type: none"> Phambili/ emuva Lishadi lemicitibisholo Imidalo njengelandzela sitimela Indela yetihibe- kulandzela tinhombandela Sifundvo sekutivocavoca nemisebenti yemculo 	
	Ulandzela tinhombandela (ayedvwa nobe/na njengelilunga licembu nobe licembu) ahamble/ eme endzaweni letsite (tinhomba)			<ul style="list-style-type: none"> Phambili/ emuva Phambili nasemuva Etulu naphasi Sancelle neseckudla Ubuyaphi umsindvo? 	

TIHLOKO	ITHEMU 1	ITHEMU 2	ITHEMU 3	ITHEMU 4
<p>3.2</p> <p>Tintfo letingemadymenshini lamatsatfu (3-D) (Ubona, atfole abuye anikete tintfo letingemadymenshini lamatsatfu eklasini)</p> <p>a) Emabholia b) Emabhokisi:</p>	<p>3.2</p> <p>Tintfo letingemadymenshini lamatsatfu (3-D) Uchaza, ahlunge, bese ucatsanisa tintfo letingemadymenshini lamatsatfu (3-D) nabobunjwa labangemada-yimenshini lamabili (2-D) ngekulandzela loku:</p> <p>a) Isayizi (kuncane/kukhului) b) Umbala(lobovu, loluhlata kwesibhakabbaka, loluphuti, loluhlata njengetjani) c) Bunjwa (indilinga, calantsatfu, sikwelle, calandez) d) Tintfo letigicikako e) Tintfo letishelelako</p>	<ul style="list-style-type: none"> Emabholia: kweftula nekufundzisa kabanti ngemabholia Emabhokisi: kweftula nekusebenta kabanti ngemabholokisi 	<ul style="list-style-type: none"> Ngenisa lishadi lekukhweta (kuhlunga emathoyisi) Isayizi: Hlunga tintfo letingemadymenshini lamatsatfu lamatsatfu (3-D) ngekwasayizi yato yato Umbala: Hlunga tintfo letingemadymenshini lamatsatfu (3-D) nabobunjwa labangemada-yimenshini lamabili (2-D) ngekwemibala Bunjwa: Hlunga tintfo letingemadymenshini lamatsatfu lamatsatfu (3-D) nabobunjwa labangemada-yimenshini lamabili (2-D) ngekubumbeka kwabo. Tintfo letigicikako - Buka uhlunge tibali ngekwemibala. Umbala: Buka uhlunge tibali ngekwemibala. Bunjwa: Hlunga tintfo letingemadymenshini lamatsatfu (3-D) nabobunjwa labangemada-yimenshini lamabili (2-D) ngekubumbeka kwabo. Tintfo letishelelako - Tfola uhlatiye tintfo letishelelako. - Bona uhlatiye tintfo letigicikako naletishelelako 	<ul style="list-style-type: none"> Isayizi: Hlunga letingemadymenshini lamatsatfu (3-D) ngekwasayizi yato yato Umbala: Buka uhlunge tibali ngekwemibala. Bunjwa: Hlunga tintfo letingemadymenshini lamatsatfu (3-D) nabobunjwa labangemada-yimenshini lamabili (2-D) ngekubumbeka kwabo. Tintfo letigicikako - Buka uhlatiye tintfo letigicikakol Tintfo letishelelako - Tfola uhlatiye tintfo letishelelako.

TILOKO	ITHEMU 1	ITHEMU 2	ITHEMU 3	ITHEMU 4
Yakha tintfo letingemadayimensehini lamatsatfu (3-D) usebentise tintfo letiphatsekako (sib. emabhuoloki ekwakha).	Kuyachubeka <ul style="list-style-type: none"> Nika emabhuoloki ekwakha ngesikhatsi sekudlala ngekhatsi njal o njalo Dlala ngemabhuoloki ekwakha 	Kuyachubeka <ul style="list-style-type: none"> Nika emabhuoloki ekwakha ngesikhatsi sekudlala ngekhatsi njal o njalo Dlala ngemabhuoloki ekwakha 	Kuyachubeka <ul style="list-style-type: none"> Nika emabhuoloki ekwakha ngesikhatsi sekudlala ngekhatsi njal o njalo Bantwana bayākha basusela kusibonelo lesitsite sesakhiwo • Tsatsela lesakhiwo lesesitfombeni nobe likhadisitfombe Tfutufikisa kukopa sakhiwo lesifanako sisuselwe esitfombeni nobe likhadisitfombe 	Kuyachubeka <ul style="list-style-type: none"> Nika emabhuoloki ekwakha ngesikhatsi sekudlala ngekhatsi njal o njalo Kuyachubeka ngesikhatsi sekudlala lo kukhulelekile

TIHLOKO	I THEMU 1	I THEMU 2	I THEMU 3	I THEMU 4
3.3 Bobunjiwa labangemada-yimenshini lamabili (2-D) Ubona, atfole, asho emagama abobunjwa labangemada-yimenshini lamabili (2-D) eklassini nasetitombeni, lokufaka ekhatsi: a) Timphawu tebafundzi b) Ligama likiasi	<ul style="list-style-type: none"> Vumela umfundzi ngamunye akhetse emakhadi abo etimpahawu ngelusuku lwekucala Bukisa kuphela Iuphawu/ sittombe semfundzi etinyangeni letintsatfu tekucala emnyakeni Ngenissa ligama lelikiasi sib. kusebentisa sittombe-likiasi lelibhele lelingu Teddy Faka ilebuli lenelibito latishela esivalweni/ emnyango wellikasi Lebula ukhombise likiasi leliBang R 	<p>Emaphazili (ayachubeka)</p> <ul style="list-style-type: none"> Bukisa emabito ebafundzi kuphela etukwelebuli yetinyangga letitsifupha tekugcina temnyaka Kuyachubeka 	<p>Emaphazili (ayachubeka)</p> <ul style="list-style-type: none"> Bukisa emabito ebafundzi kuphela etukwelebuli yetinyangga letitsifupha tekugcina temnyaka Kuyachubeka 	<p>Emaphazili (ayachubeka)</p> <ul style="list-style-type: none"> Bukisa emabito ebafundzi kuphela etukwelebuli yetinyangga letitsifupha tekugcina temnyaka Kuyachubeka
Akhiwa njani emaphazili Linani nane: a) (Ithemu 1: tincetu leti -6) b) (Ithemu 2: tincetu leti -12) c) (Ithemu 3: tincetu leti - 18) d) (Ithemu 4: tincetu leti -24) Kukhona kubona intfo lefihlakele Bobunjiwa be-Jomethri a) indiliinga b) calantsatfu c) sikwele d) calandze e) Kugcimwa kwabunjiwa (kungagucuki kwsimo)	<p>Emaphazili</p> <ul style="list-style-type: none"> Ngenisa emaphazili ubuye unikete lusito kwekutsi akiwa kanjani Coca ngesittombe sephazili kugciwe kumininingwane lefana nemibala, bantfu/ tilwane, tintfo, tikhundla tebantfu/netilwane netintfo Bafundzi bamele bacedze iphazili lokungenani lenetinctetu leti-12 ekupheleni kwethemu yesi -2 Kwakha ubuye ucedze iphazili yakho lenetinctetu le-4 Bafundzi bamele bacedze iphazili lokungenani lenetinctetu leti-6 ekupheleni kwethemu yekucala Ngenisa takhiwo tetintfo letifihlakele (Tfola tintfo “ngiyakwati kufunisa ngemelo ami ngemehlo ami lamancane”) Tfutfkisa calantsatfu Gcina simo sabobunjiwa labafundzisiwe singagucuki kufika lomuhla(kungagucuki kwsimo sacalantsatfu) 	<p>Emaphazili (ayachubeka)</p> <ul style="list-style-type: none"> Niketa emaphazili latinhabonhlobo ngesikhatsi sekudlala lesikhululekile sangekhatsi eklassini malanga onkhe Bafundzi bamele bacedze iphazili lokungenani lenetinctetu leti-18 ekupheleni kwethemu yesi -3 Tfutfkisa kubona lokufihlakele ngekuhlunga,kumatania nekugcogcela ndzawonye imisebenti nemkhuba wekukhweta. Tfutfkisa kubona lokufihlakele ngekuhlunga,kumatania nekugcogcela ndzawonye imisebenti nemkhuba wekukhweta. Tfutfkisa calantsatfu a) Gcina simo sabobunjiwa labafundzisiwe singagucuki kufika lomuhla(kungagucuki kwsimo sacalantsatfu) 	<p>Emaphazili (ayachubeka)</p> <ul style="list-style-type: none"> Niketa emaphazili latinhabonhlobo ngesikhatsi sekudlala lesikhululekile sangekhatsi eklassini malanga onkhe Bafundzi bamele bacedze iphazili lokungenani lenetinctetu leti-24 ekupheleni kwethemu yesi -4 Tfutfkisa kubona lokufihlakele ngekuhlunga,kumatania nekugcogcela ndzawonye imisebenti nemkhuba wekukhweta. Tfutfkisa calantsatfu a) Gcina simo sabobunjiwa labafundzisiwe singagucuki kufika lomuhla 	<p>Emaphazili (ayachubeka)</p> <ul style="list-style-type: none"> Niketa emaphazili latinhabonhlobo ngesikhatsi sekudlala lesikhululekile sangekhatsi eklassini malanga onkhe Bafundzi bamele bacedze iphazili lokungenani lenetinctetu leti-12 ekupheleni kwethemu yesi -2 Kwakha ubuye ucedze iphazili yakho lenetinctetu le-5 Tfutfkisa kubona lokufihlakele ngekuhlunga,kumatania nekugcogcela ndzawonye imisebenti nemkhuba wekukhweta. Tfutfkisa kubona lokufihlakele ngekuhlunga,kumatania nekugcogcela ndzawonye imisebenti nemkhuba wekukhweta. Tfutfkisa calantsatfu a) Gcina simo sabobunjiwa labafundzisiwe singagucuki kufika lomuhla

TILOKO	I THEMU 1	I THEMU 2	I THEMU 3	I THEMU 4
3.4 Umugca lohlukanisa emkhatsini kulingane kufanane (Ubona umugca lohlukanisa emkhatsini kulingane kufanane emtimbeni wakhe)	<ul style="list-style-type: none"> Tfola titto temtimba (ngekubala) Inhioko, emehlo, umkhono, imp humulo, Umlomo, silevu, intsamo, emah lombe, iminwe, sifuba, umlente, Lidvolo, lunyawo, lutwane Umtimba wemuntfu munye unemacala lamabili 	<ul style="list-style-type: none"> Kweca umugca lowehlukanisa emkhatsini kulingane kubuye kufane –iminyakato yekwenta Kweca umugca lowehlukanisa emkhatsini kulingane kubuye kufane –imisebenti yasebhodini 	<ul style="list-style-type: none"> Kweca umugca lowehlukanisa emkhatsini kulingane kubuye kufane-imisebenti yasebhodini Yeca umugca lowehlukanisa emkhatsini kulingane kubuye kufane ngesikhatsi Semakhono Ekuphila (Kutuftukisa Kutivocavoca) 	<ul style="list-style-type: none"> Tfutfkisa kucikelela kutsi kunemugca lowehlukanisa emkhatsini kulingane kubuye kufane etintweni. Yeca umugca lowehlukanisa emkhatsini kulingane kubuye kufane ngesikhatsi Semakhono Ekuphila (Kutuftukisa Kutivocavoca)

SIBUTSETELO SELIBANGA R 4. SILINGANISO					
SIHLOKO	ITHEMU 1	ITHEMU 2	ITHEMU 3	ITHEMU 4	
4.1 Sikhatsi: Uchazza sikhatsi selusuku asebentisa imini nebusuku. Landzelanisa tigameko letenteka malanga onkhe emphilweni yakhoo	<ul style="list-style-type: none"> Ngenisa lwati "lwemini nebusuku"ne "kukhanya / bumnyama" Ekuseni, ntsambama, ntsambama (kufundza lokungakahaleleki eluhelwani lemalanga onkhe neshadi lesimo selitulu. 	<p>Ngenisa luhlelo lwemalanga onkhe</p> <ul style="list-style-type: none"> Bafundzi babona Kulandzelaniswa kwetigameko talelosuku. Tifombe tikhonjiswa kusukela kusencelle kuye kusekudia kutfutfukiswa Kufundza Kulandzela inkombandela. Umholi walelolanga uham bisa Inkomba yeukhombisa kuchubekel embili kwemisebenti yehlelo lwalelolanga. 	<p>Luhlelo lwemalanga onkhe (ngalokuchubekako)</p> <ul style="list-style-type: none"> Tfutufukisa kulandzelana kwetigameko letichubekako telilianga ngekusebentisa luhlelo lwemalanga onkhe. 	<p>Luhlelo lwemalanga onkhe (ngalokuchubekako)</p> <ul style="list-style-type: none"> Tfutufukisa kulandzelana kwetigameko letichubekako telilianga ngekusebentisa luhlelo lwemalanga onkhe. 	<ul style="list-style-type: none"> Luhlelo lwemalanga onkhe (ngalokuchubekako) <ul style="list-style-type: none"> Tfutufukisa kulandzelana kwetigameko letichubekako telilianga ngekusebentisa luhlelo lwemalanga onkhe. Iishadi lesimo selitulu (onkhe emalanga) <ul style="list-style-type: none"> Bafundzi batfolo ligama lelilanga, lusu ku nyanya ngefleshikhadi, nekubukisa ngemalebuli netimpawu ekhalendeni yeliviki. Ishadi lesimo selitulu (onkhe emalanga) <ul style="list-style-type: none"> Bafundzi batfolo ligama lelilanga, lusu ku nyanya ngefleshikhadi, nekubukisa ngemalebuli netimpawu ekhalendeni yeliviki. Ishadi lesimo selitulu (malanga onkhe) <ul style="list-style-type: none"> Thishela uhola bafundzi kusisi bakwati kulfola ligama lelilanga, nyanya nekucula ingoma nekwenta umlolotelo, ifleshikhadi, nekubukisa ngemalebuli netimpawu ekhalendeni yeliviki. Ishadi lesimo selitulu (malanga onkhe) <ul style="list-style-type: none"> Thishela uhola bafundzi kusisi bakwati kulfola ligama lelilanga, nyanya nekucula ingoma nekwenta umlolotelo, ifleshikhadi, nekubukisa ngemalebuli netimpawu ekhalendeni yeliviki. Ishadi lesimo selitulu (onkhe emalanga) <ul style="list-style-type: none"> Tfutufukisa lwati lwesikhatsi Khombisa tinsuku tekutialwa, kutikhipa, emalanga lakhetsekile, emaholide evikini. Landzelanisa tinyanya temnyaka ngeliculo
	<p>a) Luhlelo lwemalanga onkhe</p> <p>b) Lishadi lesimo selitulu</p>				

SIHLOKO	ITHEMU 1	ITHEMU 2	ITHEMU 3	ITHEMU 4
4.1 Sikhatsi: <u>Landzelanisa tigameko letenteka malanga onkhe emphilweni yakho</u>	<ul style="list-style-type: none"> • Emalanga eliviki <p>Sikhatsi:</p> <ul style="list-style-type: none"> - Thishela ufundzisa bafundzi ingoma nemlolotelo ngemalanga eliviki. Phindza onkhe malanga njengobe lishadi lesimo selitulu lisho. - Kulandzelanisa emalanga eliviki ngeliculo <p>Lishadi letikhatsi temnyaka</p> <ul style="list-style-type: none"> - Ngenisa lelishadi ukhombise letikhatsi temnyaka letine: <ul style="list-style-type: none"> o Lihlobo o Likwindla o Busika o Intwasahlobo 	<ul style="list-style-type: none"> • Emalanga eliviki (ngalokuchubekako) <p>Lishadi letikhatsi temnyaka</p> <ul style="list-style-type: none"> - Thishela ufundzisa bafundzi ingoma nemlolotelo ngemalanga eliviki. Phindza onkhe malanga njengobe lishadi lesimo selitulu lisho. 	<ul style="list-style-type: none"> • Emalanga eliviki (ngalokuchubekako) <p>Lishadi letikhatsi temnyaka</p> <ul style="list-style-type: none"> - Umcibisholo lokhombisa sikhatsi semnyaka lekungiso uyahanjiswa njengobe tikhatsi temnyaka tintijntia - Ngelusuku lwekucala lwekuvula kwetikolo thishela ubuta bafundzi kutsi bebentani ngemaholide. 	<ul style="list-style-type: none"> • Emalanga eliviki (ngalokuchubekako) <p>Lishadi letikhatsi temnyaka</p> <ul style="list-style-type: none"> - Umcibisholo lokhombisa sikhatsi semnyaka lekungiso uyahanjiswa njengobe tikhatsi temnyaka tintijntia - Ngelusuku lwekucala lwekuvula kwetikolo thishela ubuta bafundzi kutsi bebentani ngemaholide. - Tfutufkisa kucikelela kwalokwentiwa ngumfundzi kusukela ngesikhatsi lavuka ngaso kute kube sikhatsi laya ngaso esikoleni. - Tfutufkisa kucikelela kwalokwentiwa kusukela ngesikhatsi sekuda kwakushihwa nesekulala.

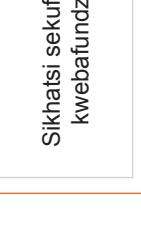
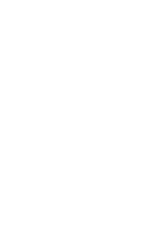
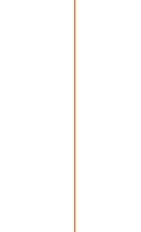
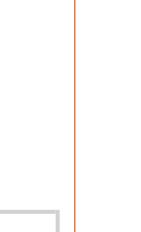
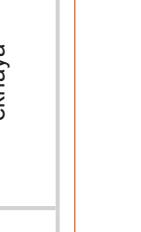
SIHLOKO	I THEMU 1	I THEMU 2	I THEMU 3	I THEMU 4
4.1 Sikhatsi (siyachutjwa) Ngenisa lishadi letinsuku tekutalwa <ul style="list-style-type: none"> Ngenisa lishadi letinsuku tekutalwa Bafundzi bamele batiminyaka yabo yebvdzala Tfutufkisa Iwati lwekfundza tinhombandela Bafundzi kumele bati tinsuku tabo tekutalwa (lusuku nenyanga) 	<ul style="list-style-type: none"> Kuyachubeka nangabe kulusuku lwekutalwa kwemfundzi Ngalokuchubekako 	<ul style="list-style-type: none"> Kuyachubeka nangabe kulusuku lwekutalwa kwemfundzi Ngalokuchubekako 	<ul style="list-style-type: none"> Kuyachubeka nangabe kulusuku lwekutalwa kwemfundzi Ngalokuchubekako 	<ul style="list-style-type: none"> Kuyachubeka nangabe kulusuku lwekutalwa kwemfundzi Ngalokuchubekako
4.2 Budze <p>Catsanisa ngetintfo letiphatsekako ubuyeusebentise silulumagama lesingiso kuchaza budze.</p> <ul style="list-style-type: none"> Ngenisa Lishadi Lebudze Kala ngetandla (Ngekubona nangalokungakahleki) Kala ngetintyatselo telunyawo (ngekubona nangalokungakahleki) Kala ngethephu (ngekubona nangalokungakahleki) Kudze, kufisha kudzana, kufishana, kudze, kudze kakhudlwana/ kudze kakhlulu (kubona) - Combela 	Budze <ul style="list-style-type: none"> Lokudze nalokufisha, kudze, kudze kakhudlwana, kudze kakhlulu (kubona) Ngenisa Iwati lwebudze Lishadi lebudze lelinetandla / tinyawo 	Budze <ul style="list-style-type: none"> Lokudze kakhlulu nalokufisha kakhlulu, lokudze kancane nalokufishanyanya (yandzisa Iwati lwebudze) Gcizelela Iwati lwebudze Bafundzi battola kutsi bakhulle yini kusukela ethemini leyengcie (Bafundzi bangacatsansa budze babo ngentfo letsite eklassini, sib. likhabethi) 	Budze <ul style="list-style-type: none"> Combela budze betintfo letenlkene. Combela ukale budze betintfo letenlkene ngekusebentisa lunyawo, tandla, intsambo indvuku njil. 	Budze <ul style="list-style-type: none"> Kala budze bebafundzi ngethephu (esikhundleni setanda sebentisa ithephu)

SIHLOKO	ITHEMU 1	ITHEMU 2	ITHEMU 3	ITHEMU 4
<p>4.3</p> <p>Sisindvo</p> <p>Usebenta ngetintfo Ietiphatekako acatsanisa abuye ahiele tinfo asebentisa silulumagama lesingiso kuchaza loku lokulandzelako:</p> <ul style="list-style-type: none"> a) Kulula, kuyasindza b) Kulula Kakhudiwana, kuyasindza kusindza kakhudiwana c) Kuyachubeka ngesikhatsi sekudlala ngemanti nesanti. 	<p>4.3</p> <p>Sisindvo</p> <ul style="list-style-type: none"> • Ngenisa Iwati Iwesisisindvo ngekucatsanisa sisindvo setintfo letenukene sib. <ul style="list-style-type: none"> - Kulula/kuyasindza - Kuludlana/kuyasindza kakhudiwana • Gcizeleta Iwati Iwesisisindvo (kulula kakhulu, kusindza kakhulu) 		<p>4.3</p> <p>Sisindvo</p> <ul style="list-style-type: none"> • Ngenisa Iwati Iwesisisindvo ngekucatsanisa sisindvo setintfo letenukene sib. 	

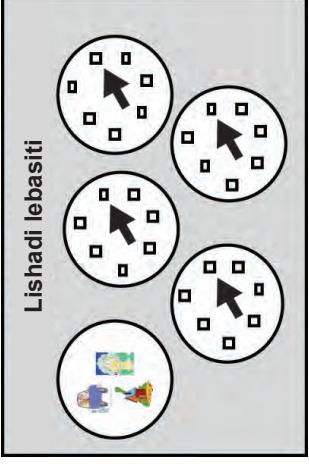
SIBUTSETELO SELIBANGA R 5. KUSEBENTA NGEDATHA			
SIHLOKO	ITHEMU 1	ITHEMU 2	ITHEMU 3
			ITHEMU 4
5.1 Gcogca ubuye uhlunge tintfo Gcogca idatha Gcogca tintfo letiphatsekako letifanako (uwedwa noma njengelilinga lelicembu) sib. emacembe lalishumi, bobunjwa labalishumi.	<ul style="list-style-type: none"> Ngenisa lwati Iwekusebenta ngedatha a ngekugcogca idatha lemayelana nekutsi bangaki bafana nemantfombatane eklasini. 	<ul style="list-style-type: none"> Googca tintfo (tintsi letingemasayizi lahlukene) 	<ul style="list-style-type: none"> Buta umbuto: “Ngabe avamile yini emagama lanetinhlavu letisitifupha?” Gcogca idatha kute uphendyule imibuto usebentisa emakhadigama ebantwana. <p>(Gcogca idatha (Nguluphi iuhlobo iwestifutisi lolusetjentiswa batfundzi nabeta esikolweni?)</p>
Hlunga idatha Hlunga tintfo letiphatsekako ngekuvana kwato sib. Isayizi yemacembe.	<ul style="list-style-type: none"> Hlunga idatha ngekumisa bafundzi ngemigca yebafana bodywa nemantfombatane emgenci wawo. 	<ul style="list-style-type: none"> Hlunga tintfo letigcogciwe (tintsi letingemasayizi lahlukene) 	<ul style="list-style-type: none"> Hlunga emakhadimagama ngekvelinan ietinhlavu egameni ngalinye. Hlunga idatha ngekvetinyanga tekutalwa temfundzi ngamunye. Umfundzi ngamunye ukhetsa ibulokti lemele umbala wenhlama yekudlala lawutsandzako ngalelo viki. Hlunga idatha yalokuggcogciwe (labahamba ngetinyawo, ngetimoto tebatali, iithekisi nobe ibhasi).
5.2 Veta tintfo letigcogciwe tahlungwa (Dwweba igrafu kuveta idatha Dwweba sifrombe Injengebufakazi betintfo lotigcogcie).	<ul style="list-style-type: none"> Yakha igrafu usebentisa emabhuuki nobe bobunjwa kuveta idatha 	<ul style="list-style-type: none"> Dwweba igrafu yetintfo letigcogciwe (tintsi letingalingani) 	<ul style="list-style-type: none"> Dwweba igrafu leveta tinsuku likhadigama ngalinye ngentasi kwemakholamu lafanele. Dwweba igrafu leveta tinsuku tekutalwa tebfafundzi tenyanya ngayinye. Sebentisa tintfo mbamba kwenta i-grafu njengemabhuloki, emakhiyubi lapakelene, ligobne emabhuloki e-duplo dipulo kuveta imibala yenhlama lohlele kuyenta sib. loluhlata njengesibhakbhaka, lomtfubi nalojuhlaa njengejani. Dwweba igrafitifombe kuveta batfundzi labahamba ngetinyawo, labeta ngethekisi, ngetimoto tebatali nalabafika ngebhasi

SIHLOKO	I THEMU 1	I THEMU 2	I THEMU 3	I THEMU 4
5.3 Coca ubuye ubike ngetinfo letigcogiwe tabuye tahlungwa Fundza ubuye uhumushe emagrafu Phendvula imibuto lecondziswe etitombeni nobe etintfweni iotihlungeli tona. (Mangaki emacembe lamakhulu lowadwabile? Ngiuwaphi lamanyent ngabe ngulamakhulu nobe ngulamancane?)	<ul style="list-style-type: none"> Fundza ubuye uhumushe idatha idatha ngekusebentisa inhlama yekudlala kuveta inombolo yemantombatane nebaftana. 	<ul style="list-style-type: none"> Fundza ubuye uhumushe emagrafu usebentise imibuto 	<ul style="list-style-type: none"> Fundza ubuye uhumushe idatha ngekubala emakhadinombolo ekholamini ngayinye ubuye ufinyetele esiphettiveni. 	<ul style="list-style-type: none"> Fundza ubuye uhumushe igratu ngekusebentisa imibuto kutfola kutsi nguyiphi tinyanga lenetinsuku tekutalwa letinyeti. Ngekwekukhetisa kwebafundzi umbala wenhlama yekudala waleliviki, njengesibonejo, utawuba ngulomtfubi. Fundza ubuye uhumushe emagrafu (bangaki bafundzi labeta ngeti nyawo, labeta ngethekisi, ibhasi nil).

3.5 EMANOTSI LACACISA LOKUCUKETFWE NETINKHOMBANDLELA TEKUFUNDZISA

Tibalo telibanga R ITHEMU 1				
Liviki 1	Sikhatsi i lesiphakanyisiwe sekufundzisa: Umsebenti munye weiklasi loholwa nguthishela (sikhatsi sesifundvo) emaminithi ± 30 ngelilanga (misebenti yetibalo ± 5 ngeliviki)	Emanotsi lacacisako	Tinsita letipphakanyisiwe	Budze besikhatsi lesilinganisiwe
Kwetayeta Sihloko	<p>4.1</p> <p>Sikhatsi</p> <ul style="list-style-type: none"> Kulandzelanisa tigameko letenteka emphilweni yemalanga onkhe Ngenisa luhlelo lwemalanga onkhe - Enta tigameko tilandzelane ngelilanga. - Tifombe tibekwa kusuka esencelle nesekuda. - Umholi walelolanga uhambisa Inkombala kusuka esencelle kuye eseukdla njengoba imisebenti lesueluelweni lwemalanga onkhe ichubeka. - Bafundzi battola lwati ngekulandzelana kwetigameko telilanga. 	<p>Luhlelo lwemalanga onkhe luveteve netifombe.</p>   	<p>Luhlelo lwemalanga onkhe luveteve netifombe.</p>   	<p>Emalanga onkhe, emva kwekungengenisa.</p>  
LUHLELO LWEMALANGA ONKHE LOLUPHAKANYISIWE				
Sikhatsi sekufika kwebafundzi	<p>Irejista, tinsuku tekutawwa, lishadi lesimo selitulu, tindzaba</p>  	<p>Umsebenti wellikasi loholwa nguthishela; Buciko Bekubona wente nemdalo Lokhululekile wangekhatsi.</p>  	<p>Kukhewta emathoyizi</p>	<p>Umsebenti wellikasi loholwa nguthishela</p>  
Sikhatsi sekuda	<p>Umdalo lokhululekile wangaphandle nekukhweta emathoyizi.</p>  	<p>Sikhatsi sekuya endlini lencane</p>  	<p>Umsebenti wellikasi loholwa nguthishela</p>  	<p>Sikhatsi sekuya ekhaya</p>  

Sihloko	Emanotsi lacacisako	Tinsita letipphakanyisiwe	Budze besikhatsi lesilinganisiwe																								
Emanotsi:																											
<ul style="list-style-type: none"> Kwetfulla lokucukettwe kuelusuku kuvetwa sikhatsi ieseneluhlelweni lwemalanga onkhe. Luhlelo lweliliangga luhkhulekile siboneko. Sikhatsi sekuya endlini lencane singayiwa norma kusiphi sikhatsi ngekwetimo netidzingo tesikolo. Beka onkhe emashadi emva kwekuba sewuwangenisile. Ikholamu yemanotsi ayikabhalaleki ngeluhlelo iwekulandzelana ngelilangga kodywa kuya ngekwemkhakha walokucukettwe. Ngakoke kumele ukhetse kutsi nguliphi lilangga lokufanle kwentive ngalo umsebenti ikhetsekile. Kulamanye emaviki kunemisebenti leyengca kulesihlanu. Loko kwentelwe kutsi ubi nemisebenti leyenele longakkhetsa kuyo ngaloko akusho kutsi kufanele uyente yonkhe imisebenti lefakiwe. 	<p>1.4 Chaza, ucatsanise ubuye uhlele timombolo</p> <ul style="list-style-type: none"> Ngenisa luhlelo iwekuya endlini lencane (sebentisa timombolo te-odinali kukhobisa kuhleleka, indzawo nobe kubekeka) <ul style="list-style-type: none"> Ttfutfkisa lwati iwekulandzelana/kuhleleka kueluhlelo iwekuya endlini lencane(kwekucala sebentisa indlu lencane, geza tandla, vala impompi bese usula tandla njii.) Ttfutfkisa lwati iweitinombolo te-odinali sib. Lunga wekucala, Juda wesibili njii. 	<p>Inshipo, lithawula Indlu lencane Emanti asempompini.</p> <p>3.2 Tintfo letingemada-yimenshini lamatsattu (3-D)</p> <ul style="list-style-type: none"> Ngenisa Lishadi Lekukhweta <ul style="list-style-type: none"> Yenta emacembu lamancane ekusebenta. Ttfutfkisa kulantzelana nekuhlunga tinsita. <p>Hlukanisa linani lebafundzi eksasini lakho baye etindzaweni tekukhweta letsiphohlongo. Licembu ngalinye kumele libambe lichaza ekuhlobiseri indzawo bantijtjane, ngemaviki.</p> <p>Chaza, uhlunge ubuye ucatsanise tintfo letingemadayimenshini lamatsattu (3-D) macondzana naloku:</p> <ul style="list-style-type: none"> Isayizi Umbala Tintfo letigicikako Tintfo letishelelako 	<p>Emva kwekungenisa Iuhlelo iwekuya endlinil lencane, lomsebenti wenteka malanga onkhe.</p> <table border="1"> <tr> <td></td> <td></td> <td></td> </tr> </table> <p>Lishadi Lekukhweta</p> <table border="1"> <tr> <td></td> <td></td> <td></td> </tr> </table>																								

Sihloko	Emanotsi lacacisako	Tinsita letiphakanyisiwe	Budze besikhatsi lesilinganisiwe
1.1 Bala tintfo Sikhatsi sekudla	<ul style="list-style-type: none"> Ngenisa Yishadi Lebasiti nendela lekuwetwa ngayo kudla. Combela ubuye ubale tintfo kute utuftukise Iwati Iwetinombolo ngeku: <ul style="list-style-type: none"> - Sebentisa lishandi lebasiti kutfola umsiti lekunguye losita litafula ngalelolanga ngesikhatsi sekudla. - Tindililinga letisihlanu eshadini lebasiti timele emacembu lasihlanu lohlukanise ngawo bafundzi bakho sib. Licembu lelibou, licembu lelilihata kwestibhakabaka, licembu lelimtubi, licembu lelilihata kwejtiani nalelliphuti. Ungaphindza usebentise netitselo letehlukene/ tiwane/tiftutsi njil. - Luphawu Iwemfundzi ngamunye lufakwa ngekhatsi kwendilinga yelicembu layincencye yalo. - Kuhambisa Inkomba lesemkhatsni wayinye indiliinga kuveta umhili walelocembu. Umholi welicembu uyantintjwa onkhe emalanga kuenta siciniseko sekutsi wonkhe umfundzi uyalitfolia littuba. - Umholi welicembu ubala linani lebafundzi netindishi ngekwelinani lebafundzi lebakhona ecenjni iakhe ngalelolanga (kucondzanisa kunte kulokunye) 	 <p>Lishadi lebasiti</p>	Emva kwekuba lishadi lebasiti sellingenisiwe kudla kwewetwa ngalendela emlanga onkhe.
3.3 Bobunjwa labangema-dayimenshini lamabili (2-D)	<ul style="list-style-type: none"> Kubona, kutfola nekusho bobunjwa labangemada-yimenshini lamabili na/nobe tifombe eklasini -Timphawu tebafundzi Vumela umfundzi ngamunye akhetse likhadi lelineluphawu Iwakhe. Iwemfundzi ngamunye (stifombe nobe igrafutifombe). - Lungiselela umbukiso wemabholuki ebuciko bekuticambela ngeluphawu Iwemfundzi ngamunye (stifombe nobe igrafutifombe). - Namatsisela luphawu elokheni yemfundzi ngamunye. - Vumela umfundzi abone ilokha yakhe lehambelana neluphawu Iwakhe. - Fasa luphawu loluneliga etimphahleni tebafundzi. - Bafundzi babona timphawu tabo netebangani kute bakhutsatwe kutsi batfole emakhati etimphawu letehlukene, sib. Bafundzi bahlala bente indilinga, thishela andale tonkhe timphawu bese ucela bafundzi kutsi batfole timphawu tabo. - Tifombe letincane tebafundzi tingaserjetitswa njengemakhadi etimphawu, nangabe tikhona. <ul style="list-style-type: none"> Ligama leliklassi Tuftukisa Iwati Iwekutsi bafundzi bangemalunga elicembu linye lelikhulu ngekwetfuia ligama leliklassi sib.ngekusebentisa stiftombe –liklassi “lemabhele laboThedi”. 	<p>Njengalesikhatsi bafundzi bafika kwekucala</p> <p>Emakhati tanetimpawu temfundzi ngamunye. Yenta emasinephukhadi ngetimpawu tetifombe.</p> <p>Emalokha, emabokisi nobe emahukka laselubondzeni lamakwe ngetimpawu.</p> <p>Emalebuli eliBanga R</p> <p>Stiftombe selligma leliklassi lesisho umnyango</p> <p>Emalebuli laneligama nesibongo sathishela</p> <p>Bafundzi bamele batati ligama laThishela wabo.</p>	

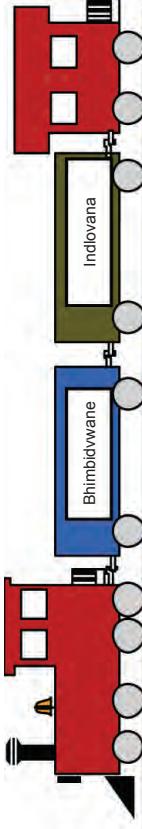
Sihloko	Emanotsi lacacisako	Tinsita letiphakanyisiwe	Budze besikhatsi lesilinganisiwe
Emanotsi:			
	<ul style="list-style-type: none"> • Beka kuphela lumphawu/sitfombe semfundzi etinyangeni letintsaifu tekucala emnyakeni. • Beka lumphawu/sitfombe neligama lemfundzi etinyangeni letintsaifu letifandzelako. • Beka kuphela ligama lemfundzi elebuline etinyangeni letisifupha tekugcina. • Kugcine esivalweni umnyaka wonkhe. • Ilebuli lenelgama latishela. • Ilebuli lekhomba likiasi lelibanga R . 		
Liviki 2 Kwetayeta	Umsebenti munye welikiasi loheliwe loholwa nguThishela (tikhatsi tetifundvo)emaminithi ± 30 ngellilanga(lmisebenti yetibalo ± 5 ngeliviki)	Tinsita letiphakanyisiwe	Budze besikhatsi lesilinganisiwe
Sihloko	Emanotsi lacacisako		
1.1 Bala tintfo	Combela ubuye ubale tintfo temalanga onkhe ngekwetsembeka	Kubala nemiolotelo yetinombolo	Onkhe emalanga
	Kubala malanga onkhe <ul style="list-style-type: none"> • Kubala ngenhloko/ngesigci kusuka ku-1-5. • Kucula emaculo nemiolotelo yetinombolo • Nanobe bafundzi bangenalo lwati lwonombolo nabacala LiBangla R kumele bakhutsatwe kutsi bacule emaculo nemiolotelo yetinombolo babuye babale ngenhloko malanga onkhe. 		

Sihloko	Emanotsi lacacisako	Tinsita letiphakanyisiwe	Budze besikhatsi lesilinganisive
1.4 Chaza, ucatsanise ubuye uhiele tinombolo	<p>Catsanisa kutsi ngutiphi tintfo letincane naletinkhulu kulelögogco leliniketiwe.</p> <ul style="list-style-type: none"> Ngenisa bukhulu nebuncane Umnyakato <ul style="list-style-type: none"> - Bafundzi batfola lwati lwalokuncane nalokukhulu ngekugoca imitimba yabo ibemincane baphindze bayilule ibe mikhulu kufika lapho ingafinyelala khona. - Vumela bafundzi bafananian tanda tabo netebangani babo kute babone kutsi tabani tanda letinkhulu nobe letincane. - Catsanisa sandla sathishela nesemfundzi. - Catsanisa umkhono wathishela newemfundzi. <p>Chaza, uhlunge ubuye ucatsanise tintfo letingemadymenshini lamatsatfu (3-D) nabobuniwa labangemada-yimenshini lamabili (2-D) mayelana nesayizi</p> <p>Lokuphatsekako usebentisa tintfo letingemadymenshini lamatsatfu (3-D)</p> <ul style="list-style-type: none"> - Bumba emabholu lamakhulu nalamanancane ngenhlama yekudala. - Tfola tintfo letinkhulu naletincane eksasini.Maka tintfo letinkhulu ngesitikha lesibovu naletincane ngesitikha lesimtfubi. Khuluma ngemasayizi etntfo letehlukene. - Hlunga tintfo letinkhulu naletincane ngekwesayizi. <p>Lokubonakalako ungeke ukuphatse usebentisa bobunjiwa labangemada-yimenshini lamabili (2-D) nobe tifombe</p> <p>Sebentisa lwati letintfo letinkhulu naletincane ngesikhatsi semsebenti webuciko ngeku.</p> <p>Lokuphatsekako usebentisa tintfo letingemadymenshini lamatsatfu (3-D)</p> <ul style="list-style-type: none"> - Kubuka tifombe tetintfo letinkhulu naletincane bese bayatijuba. - Bafundzi batsatsela tanda tabo bese bayatijuba. Tibekke ngetulu kwalessinye. Buka kutsi tabani tanda letikhulu nekutsi tabani letincane nalesincane. - Hlukanisa liphepha kabil. - Namatsiselwa tonkhe tintfo letincane ehangotsini linye leliphepha netintfo letinkhulu ehangotsini lelinye leliphepha. 	<p>Lilanga -1</p> <p>Bafundzi</p> <p>Inhlama yekudala</p> <p>Tintfo letinkhulu naletincane</p> <p>Emaphephabhu</p> <p>Emaphephandzaba</p> <p>Tikhangisi, Tikelo</p> <p>Emaphepha e-A3,</p> <p>Emakhilayoni</p>	

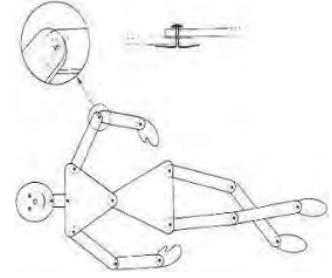
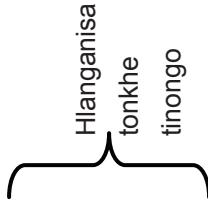
Sihloko	Emanotsi lacacisako	Tinsita letiphakanyisiwe	Budze besikhatsi lesilinganisive
3.1 Kubekeka, kutetayeta nekubukeka	<ul style="list-style-type: none"> Kubekeka kwtintfо letimbili nobe letinyentii macondzana nemfundzi: ekhatsi nangaphandle Umnyakato <p>- Nika umfundzi ngamunye ihhulahhubhu (Thishela ukhomba bafundzi ngekwenta nabo lomdalo bese usho lamagama (ekhatsi nangephandle). Kufanele bazube bangene ekhatsi nangaphandle kwemahhulahhubhu balandzela ticondziso tathishela.</p> <p>- Mani ngelunyawo lunye ngekhatsi kwehhulahhubu bese lolunye luba ngaphandle kwehhulahhubhu.</p> <p>- Tsatsa libhokisi bese uvumela bafundzi bazubele ngekhatsi /ngephandle.</p> <p>- Zubela ngekhatsi nangaphandle kwemasondo njengencenyе yemsebeni wekukhula kwtitifо temtimba.</p> <p>- Zuba ungene ekhatsi nangaphandle kwehhubhu uvale emehlo.</p> <p>Lokuphatsekako usebentisa tintfo letingemaddayimenshini lamatsatu (3-D)</p> <p>Bafundzi:</p> <ul style="list-style-type: none"> - Babeka umdoli (umntfiana) ngekhatsi ekhotthini /embhedeni babuye bamkiphele ngephandle. - Baphosa ibhola/ibhini bhegi ngekhatsi kwehhulahhubhu/esondweni. - Basebentisa lubumba balugicite lwent ibhola bese bayalucindzelata luze lundaleke (sidlike setinyoni); bagicitia bente emabholia lamancane ledila kuyinye (emacandza) bese bawaafaka ngekhatsi/ngephandle kwesideleke balandzele sicondziso sathishela. <p>Lokubonakalako ungeke ukuphatse usebentisa bobunjiwa labangemada-yimenshini lamabili (2-D) nobe tifombe</p> <p>Bafundzi:</p> <ul style="list-style-type: none"> - Babuka sitfombe kutsi bangatitfola yini tintfo llletikhombisa ngekhatsi nangephandle. - Bayatidweba ekhatsi nangaphandle kwemahhulahhubhu/kwelibhavu lelikhulu lekugeza njil. 	 <p>Emahhulahhubhu</p>	Lilanga - 1

Sihloko	Emanotsi lacacisako	Tinsita letiphakanyisiwe	Budze besikhatsi lesilinganisive
3.2 Tintfo letingemada-yimenshini lamatsatfu (3-D)	<p>Yakha tintfo letingemadaiyimenshini lamatsatfu (3-D)</p> <p>ngetinsita letiphatsekako. Tfola tindlela letinyenti tekwakha ngemabhulokhi ngesikhatsi semdalo lokhulekile wasekhatsi endini.</p> <ul style="list-style-type: none"> - Umsebenti wathishela kubona kutsi umddalo uyachubeka. - Tfola emattuba lamanyenti ekwakha emabhuolki ngekuksita bafundzi kutsi bakhe takhiwo temafulethi, letiphakerme kakhulu naletiphasi. - Hlunga ubuye uholele emabhuolki lehlukene ngekumatlanisa bobunjawa labafanako. - Hlunga ubuye uholele bobunjya labehlukene ngematanisa ngekwesayizi lefanako. - Hlunga emabhuolki ngebukhulu nebuncane. - Umfundzi uba ngamunye uba nemabhuolki lamsatffu labocalantsattu bese uwahelia ngetindela letinyenti sib. uwabeka awalandzelanise, uwapaka ngetindela letehlukile. Bafundzi bangacatsansa babuye bente lokwentiwa ngulomunye nekwabelana emabhuolki ngababii kute babe nelwati lolungeletekile ngekubekaka. - Tfuffukisa kugoggwa kwemabhuloki ekwakha ngendela leniketiwe ngemuva kwellishelufu ngekuondzanisa macondzana malendela leniketiwe. 	<p>Emabhuolki kumele apakte emashelufini kute ukhone kuwlukanisa ngemuva emashelufini.</p> <p>Tintfo letingetiwe njengetintfo letincane (tiffombe/busol obunamatelsiswe etimpahahleni ngemaphekisi) timo tekudala, tilwane tasepulazni, timplawu temgwanco njll.kumele tibe khona.</p>	Malanga onkhe.

Sihloko	Emanotsi lacacisako	Tinsita letiphakanyisiwe	Budze besikhatsi lesilinganisive
3.2 Tintfo letingemada-yimenshini lamatsatfu (3-D)	<p>Chaza, hlunga, bese ucatsanisa tintfo letingemada-yimenshini lamatsatfu (3-D) nabobunjiwa labangemada-lokuluhata kwsibhakabhabka, lobovu nalomtubu.</p> <p>Khombisa umbala munye ngesikhatsi sinye. Ungachumanisis umbala munye nabunjiwa munye.</p> <p>Hlukanisa bafundzi ngemacembu lasihlanu.</p> <p>Nika licembu ngalinye incumbi yetintfo letinemba letingemada-yimenshini lamatsatfu (3-D) nabobunjiwa labangemada-yimenshini lamabili (2-D)</p> <ul style="list-style-type: none"> - Thishela wetfulla umbala ngekuphakamisa likhadi lelinembala lafuna kutsi bafundzi bawati sib.loluhata kwsibhakabhabka.Phindza ngembala ngamunye. Bafundzi abahlunge tintfo letingemada-yimenshini lamatsatfu (3-D) nabobunjiwa labangemada-yimenshini lamabili (2-D) ngelikkhadi lelahlukele lelikhonjisiwe. <p>Umnyakato</p> <ul style="list-style-type: none"> - Fasa tindilinga letinemba leyehlukene (lobovu, loliphati, loluhlata kwsibhakabhabka) esifubeni semfundzi ngamunye letijutje emabhokisini. - Vumela bafundzi batihlele ngekwalemiba leyehlukene <p>Lokuphatsekako usebentisa tintfo letingemada-yimenshini lamatsatfu (3-D)</p> <ul style="list-style-type: none"> - Thishela ubita bafundzi labashilanu bete phambili bese unika umfundzi ngamunye intfo lengemada-yimenshini lamatsatfu (3-D) kutsi ayibambe ngesandia. - Likasi lonkhe ligmecineka liheti emacenji alo nencumbi yetintfo lengemada-yimenshini lamatsatfu (3-D) emkhatsini wematafula abo. - Umfundzi wekucala phambili uphakamisa intfo yakhe lengemada-yimenshini lamatsatfu (3-D) sib.ibhuloki yeyunifiksi leluhata kwsibhakabhabka nobe indilingga lemftubi yelogi nobe emaphazili njii. - Bafundzi ematafuleni bahlunga tintfo letehlukene letingemada-yimenshini lamatsatfu (3-D) kuye ngaloko umfundzi lakuphakamisile. <p>Lokubonakalako ungeke ukuphatse usebentisa bobunjiwa labangemada-yimenshini lamabili (2-D) nope tifombe</p> <ul style="list-style-type: none"> - Thishela ulungiselela ipende yekupenda ngemunye. - Bafundzi badyweba bobunjiwa ngemarinwe kulependi. - Tsatsisela bobunjiwa labangemada-yimenshini lamabili (2-D) ubuye ubafake imibala. 	<p>Tinhloblo tetintfo letingemada-yimenshini lamatsatfu (3-D) nabobunjiwa labangemada-yimenshini lamabili (2-D) / tifombe eklassini sib.tivalo temabhodiela, emabhuholi eLego, bobunjiwa belogi labanemibala njii.</p> <p>Tinhlobonhlo tabobunjiwa labangemada-yimenshini lamabili(2-D) netintfo letingemada-yimenshini lamatsatfu (3-D)</p>	Lilanga 1
3.3 Bobunjiwa labangemada-yimenshini lamabili (2-D)	<p>Iresiphi yepende yekupenda ngetingalo</p> <p>inkomishi yafulawa-1 inkomishi yashukela-1 ematfonsi etitsako tekupenda kudla/ pende loyimpuphu la-3 tinkomishi temanti labilako le-5 (tsela emanti kancanane kancane utamatise)</p>	<p>Emakhadi emibala leluhata kwesibhakabhabka, labovu, lamftubi</p> <p>Tinhlobonhlo tetintfo letingemada-yimenshini lamatsatfu (3-D) letigcogcw ngaphambilini taberkwa emkhatsini wemfundzi ngamunye.</p>	

Sihloko	Emanotsi lacacisako	Tinsita letiphakanyisiwe	Budze besikhatsi lesilinganisive
4.1 Sikhatsi	<p>Kulandzelanisa tigameko tempilo yabo.</p> <p>- Tinyanga temnyaka</p> <p>- Sikhatsi</p> <p>Ngenisa lishadi letinsuku tekutalwa</p> <ul style="list-style-type: none"> - Enta likhadi etinsuku tekutalwa leligcamile, sib.sitimela lesinematiokisi -12 (enyanga ngayinye)-tinyanga atilanzelane kusukela esencel kuye kusekudla ematiokisini. Faka ligama neluphawu/sitfombe semfundzi ngamunye enyangeni lenelusuku lekutalwa kwakhe. - Tfutufukisa lwati iwasikhatsti sib.kucula tinyanga temnyaka bakhomba emagama ato. - Tfutufukisa lwati tekufundza tinhombandela sib. Bukisa ngelebuli yenya ngayinye yemmyaka emugceni munye usuke esancel uye esekudla. - Bafundzi abatfole luphawu/sitfombe sabo babuye babambe ngenhloko kutsi lusuku lwabo lwakhe lungayiphi inyanga. - Bakhutsate kutsi batiminyaka yabo. - Phindza lomsebenti njalonjalo. <p>Lishadi letinsuku tekutalwa lelinetinyanga temnyaka letilishumi nakubili letindlalwe kusukela esancel kuye kusekudla</p> <p>Umchele nobe sitfombe selikhkhehe lesikhomba tinsuku tekutalwa letendlule.</p> <p><i>Liculo: Cala liculo lakho, ngeshuni yakho.</i></p> <p><i>"Bhimbidwane, Indlovane, Indlovulenkhulu.</i></p> <p><i>Mabasa, Inkwekhweti, Inhlaba, Kholwane.</i></p> <p><i>Ingci, Inyoni, Imphalala, Lweti, Ingongoni.</i></p>  <p>Umnyaka wonkhe nangabe kunelusuku lwekutalwa</p> <p>Emanotsi:</p> <ul style="list-style-type: none"> • Lusuku lwekutalwa lwenfundzi ngumgido lomcka ngako kumele lubekelwe sikhatsi eceleni lapho kubitwa khona labanye bafundzi kutsi bacule ingoma yelusuku lwekutalwa, "Ukhulle"babuye bashaye tandla kanyenti, bakhombise iminyaka yekutalwa kwebafana/mantfombatane. • Umfundzi ngamunye angadweba sitfombe bese thishela uhlanganisa yonkhe imidwewebo ebukwini letinsuku tekutalwa talomfundzi logubha lusuku lwakhe lwekutalwa • Thishela angenta umchele walentfombatane nobe umfana logubha lusuku lwakhe lwekutalwa nebafundzi bangawuhlobisa ngetintlo tekholaj. • Lomsebenti kumele uphindwve umnyaka wonkhe nangabe kunelusuku lekutalwa. 		

<p>Liviki 3 Kwetayeta</p>	<p>Umsebenti munye wellikasi loheliwe loholwa nguThishela (tikhatsi tetifundvo) emaminithi ± 30 ngelilanga(lmisebenti yetibalo ± 5 ngeliviki)</p>
<p>Sihloko</p>	<p>Emanotsi lacacisako</p> <p>Combela ubuye ubale tintto temalanga onkhe nekwetsembaba</p> <ul style="list-style-type: none"> • Kubala ngemlomo malanga onkhe <ul style="list-style-type: none"> - Balala ngenghloko/ ngesigci kusuka ku-1-5. - Cula emaculo nemilolotelo yetinombolo. <p>Nanobe bafundzi bangenalo lwati lwenombolo nabacala LiBang R kumele bakhutsatwe kutsi bacule emaculo nemilolotelo yetinombolo babuye babale ngenghloko malanga onkhe.</p> <p>Tfola ubuye ubale tiffo temtimba letehlukene</p> <p>Kubala ngenghloko malanga onkhe uphimisa kusuka ku-1-5</p> <p>Umnyakato (Hlanganisa nemakhono ekuphila –Laphatselene nebuwena)</p> <ul style="list-style-type: none"> - Tfutufkisa lwatsi lwelinani iwtifito temtimba nekutibala. - Ngikhombe imphumulo yakhlo bese uyayibala. Unaingaki timphumulo? - Ngikhombe tindlebe takho bese uyatibala. Ngabe tinyentu ngayinye? Asichubekesibale? - Ngikhomba tandia tanda takho. Tingaki? Asitibale? Yini lenye longayibona etandleni takho? Iminwe! Ungayibala? Asibale iminwe yesandla sinye 1, 2, 3, 4, 5. - Mangaki emehlo? Balala tindlebe nemehlo akho. Bamba tindlebe nemehlo akho ngalesikhatsi ubala ucale ngetindlebe. - Hlala ubukanne nemngani wakhlo ubale tiffo temtimba wakhe ucale utibambe. Thishela utawusita asho kutsi beneni sib. Bamba indlebe yinye yemngani wakhlo, bamba lenye indlebe yakhe; tibale: 1, 2, tiyalangana netakho? Chubeka ngalomsebenti. - Bona tiffo temtimba letihamba ngasinye emtitbeni wemuntfu sib. Imphumulo yinye, umlomo munye, silevu sinye njii. <p>Lokubonakalako ungeke ukuphatse usebentisa bobunjwa labangemada-yimenshini lamabili (2-D) nobe tiftombe</p> <p>Bafundzi:</p> <ul style="list-style-type: none"> - Batibuka esibukweni bese bayatisatsela/bayatidvwbeba. - Badywewa kubukeka kwemitimba yabo ephephantdzabeni bese bayihlobisa ngendelia lefanele. Badywewa umugca emkhatsini walesitfombe. - Juba tiftombe letehlukene emaphephahbukwini bese ucedzela buso - Juba buso ephephahbukwini bese udwewba titfo temtimba
<p>1.1 Bala tintfo</p>	<p>Tinsita letiphakanyisiwe</p> <p>Budze besikhatsi lesilinganisiwe</p> <p>Malanga onkhe Lilanga 1</p> <p>Emaculo nemilolotelo yetinombolo</p> <p>Malanga onkhe</p> <p>Liculo/umlolotelo lonemnyakato Emaphaziliz/midhalo leveta tinhlobo letehlukene tebantfu nesimo semtimba.</p> <p>Imidlalo yemakhdadi Bafundzi</p> <p>Sibuko lesidze Liphepha le A4, emakhilayoni Emaphephahbukku, tikhangisi, emafulya, tikelo</p>

Sihloko	Emanotsi lacacisako	Tinsita letiphakanyisiwe	Budze besikhatsi lesilinganisive
3.4 Umu<u>ga</u> Iohlu<u>kanisa</u> emkhatsini kulingane, ku<u>fanan</u>e	Bona umugca Iohlu<u>kanisa</u> emkhatsini ngalokufanako nangalokulinganako. Tfutukisa Iwati Iwekutsi umtimba wemuntu unetinhlangotsi letimbili Urnyakato Gcizelela Iwati Iwemacala emtimba "linye naelinye" Thishela ukhuluma nebafundzi ngeluhlangotsi Iwemtimba Iwaphambili nelwasemuva, incenye yemtimba yangenha neyangentasi. Bafundzi: <ul style="list-style-type: none"> - Batibuka esibulkweni labatawukhona kubuka imitimba yabo yonkhe. - Battola kutsi ngutiphi titto temtimba letifolakala ethiangotsini letimbili. - Bamba titto temtimba njebongoba kushiwo sib. "Tsintsa tintwane takho, tsintsa tinyawo takho, tsintsa inilente yakh" Bafundzi bangawenta lomsebenti bavale emehlo. - Bamba sinye sitto semtimba ngalesinye sitto semtimba sib. "Bamba emadvo akho ngemphumulo njii" (nemsebenti lofaka kweca umugca lowehlukanisa emkhatsini 	 Lilanga 1	Bafundzi Sibuko lesidze Thishela angakha umtimba Iohlu <u>kanisa</u> ngetipeneti ngelibhokisi/umfanekiso welikhadibhodi
3.2 Tintfo madayimenshini lamatsattu (3-D)	<ul style="list-style-type: none"> • Kubona usho emagama emabholo <ul style="list-style-type: none"> - Bafundzi badala ngemabholo bakhombise bese basho emagama ato tonkhe tintfo lebangatentia . Thishela uholo lokucocisana ngemibuto. - Buka tonkhe tintfo letingagicikasib.Khomba emabholuki bese ubuta imibuto 'Ucabanga kutsi ibhuloki ingagicika? asibone " - Gicitu tonkhe letinsita bese uyabuka kutsi tigcika njani sib. Tikotela tigcika ngelicele linye. - Sebentisa inhlama kwalkha emabholo langagicika ngesikhatsi semisebenti yemakhono (Imidalo lekhulekile ngekhatsi) - Ngesikhatsi semnyakato bafundzi bangagicika phasi njengebhola. 	<p>Tintfo letifolakala edvute sib. Emawolintji, emahhabhula, emabholo, emabholo emaphephandzaba nemabholo latfakwe emakhezeni</p> <p>Tinsita letilingene sib. emabholuki Umdaolo wekubhaka:</p> <p>1 inkhomishi yafulawa ½ inkhomishi yasawoti 1 inkhomishi yemanti 2 ithisipunu yemafutsa</p> <p>Ematfonsi ekupenda kulla</p>	Lilanga 1 

Sihloko	Emanotsi lacacisako	Tinsita letiphakanyisiwe	Budze besikhatsi lesilinganisive
3.3 Bobunjwa labangemada- yimenshini lamabili (2-D)	<p>Kubona, kuffola bese usho emagama abobunja labangemada-yimenshini</p> <p>- Indilinga</p> <ul style="list-style-type: none"> • Ngenisa indilinga <p>Nangabe utfula indilinga kwekucala lensita letawusetjentiswa kumele yefane (ngemasayizi, ubala lofanako, kufana ngesimo)</p> <p>Umnyakato</p> <p>Thishela udwyweba indilinga ebhodini naphasi. Bafundzi abahambe kulendilinga bakhuluma batsi 'ngihamba endilingen'i ngijajikeleta, ngijajikeleta'</p> <p>Bafundzi aba</p> <ul style="list-style-type: none"> - Bamba tandla nente indilinga. - Yentani indilinga ngemitiimba yenu. - Hamba endilingen'i ucula ingoma 'Naku ngihamba ehlatsini lemguemence' - Hlalani endilingen'i niketanani tintfo kusuka kulomunye iye kulomunye kube bacula "lizambane lashisako, undulisele kulomunye". <p>"Umfundzi lobambe lentfo nabathula ungene emkhatsi wendilinga.</p>	<p>Liculo, "Naku ngihamba ehlatsini lemguemence".</p> <p>Umdlalo 'lizambane lashisako, undulisele kulomunye'.</p>	Lilanga 1
	<p>Lokuphatsekako usebentisa tintfo letingemadaiyimenshini lamatsatfu (3-D)</p> <p>Thishela ukhomba bafundzi emahhulahhubhu bese uyachaza kutsi yindilinga ayinamakhona.</p> <p>Bafundzi aba:</p> <ul style="list-style-type: none"> - Ababambe emahhulahhubhu emadayimenshini lamatsatfu ngemirinwe yabo. - Tfola bobuniya labangemada-yimenshini lamatsatfu (3-D) ekasini labafana nendilinga. <p>Hlunga ucatsanise tintfo</p> <p>Thishela akanikete bafundzi bobunjiwa labangemada-yimenshini lamatsatfu (3-D) nalabangemada-yimenshini lamabili (2-D) ngekuhlukana kwemasayizi (kukhulu, kuncane nangembala (lobovu, loliphuti naloluhiata kwasibhakkha) njengetherini, emabholu, emamabuli, nemabhaluni, rill).</p> <p>Bafundzi ba:</p> <ul style="list-style-type: none"> - Bahlunga tintfo letinkhulu naletincane - Babeka tincumbi tetintfo ngemibala 	<p>Emahhulahhubhu</p>	<p>Lilanga 1</p>

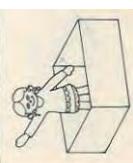
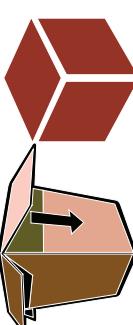
Sihloko	Emanotsi lacacisako	Tinsita letiphakanyisiwe	Budze besikhatsi lesilinganisive
4.1 Sikhatsi	<ul style="list-style-type: none"> • Tfula Simo selitulu nekhalenda <ul style="list-style-type: none"> a) Sikhatsi b) Emalanga eliviki c) Kulandzelanisa tigameko d) Kubala <p>- Simo selitulu asibe selliviki (5 emalanga) useebentise likhadi letimpawusib.</p> <p>- Emalanga lasihianu eliviki kusuka esancele uye eseekudla (ngekusebentisa timphawu ngephasi</p> <p>- Simo selitulu ukhuluma ngaso onke emalanga.</p> <p>- Thishela usita bafundzi kusho lilanga, lusuksu nenyanga ngemakhadigama njengoba aseshadini lesitulu, kamuva bafundzi batatifunela batibekel emarshadigama.</p> <p>- Umholi walelolanga utawubuka simo selitulu ngaphandle bese ucoca nelicembu lakha sebayasho kutsi kunjani. Sib. liyana, kunemafu, libalele nobe kuyashisa.</p> <p>- Thishela ubukisa loku lebakutfolile ngemakhadigama njengasehadini (kamuva bese bafundzi bayatentela).</p> <p>- Ngaloko bafundzi bafundza emalanga elifiki.</p> <p>- Bafundza ngalamuhla, itolo, kusasa njil. Ngatokungakalindzeleki.</p> <p>- Bafundzi banketwa emattuba lamanyenti ekubala uyofika ku-5 kubala emalanga lebelishisa ngawo, emalanga lokumakhata ngawo, emalanga lebekunemoya njil</p> <p>- Bokisa timphawu tebafundzi nangabe kunalogubha lusu iwekutalwa ngaleloviki.</p> <p>- Bokisa nobe ngumuphi umsebenti lotawentiwu kuleloviki sib. kuya e Zoo (ngekuveta titfombe tetiwane)</p>	<p>Lishadi lesimo selitulu lesimele liviki sib. emalanga eliviki ngekulandzelana kusukela esancele uye kusekudla ngetinyanga letisitupha terkucala, usebente ngato onke emalanga.</p> <p>Emakhadigama aloku:</p> <ul style="list-style-type: none"> - Emalanga layinkhotsa eliviki - Tinombolo 1-31 - Emagama etinyanga temnyaka - Umnyaka sib. 2012 - Emakhadi lakhombisa simo selitulu sib. <p>kunemoya</p>   <p>liyashisa/libalele</p>   <p>liyana</p>  <p>kunemafu</p>	<p>Emva kwekwetfula simo selitulu lomsebenti utawentiwu malanga onke.</p> <p>Fundzisa bafundzi liculo lekukhumbula emalanga eliviki.</p>

Sihloko	Emanotsi lacacisako	Tinsita letiphakanyisiwe Budze besikhatsi lesilinganisive														
Lishadi lesimo selitulu																
Sibonelo selishadi lesimo selitulu	Inhlaba	2012														
4.1 Sikhatsi	<p>Kulandzelanisa tigameko emphilwani yamalanga onkhe</p> <ul style="list-style-type: none"> Emalanga eliviki Thishela ufundzisa tingoma nemilotelongemalanga eliviki week. Phindza onkhe emalanga njengoba lishadi i lesimo selitulu sisho. <p><i>Liculo:</i> “Kunemalanga layinkotsa ngeliviki, kunemalana layinkhotsa ngeliviki, “Lisonto, Umsombuluko, Lesibili, Lesitsatfu, Lesine, Lesihlanu, Umgcibelo.” (X2)</p> <ul style="list-style-type: none"> Ngenisa lishadi letikhatsi temnyaka ngekukhombisa tikhatsi temnyaka letine ngemcibisholo <ul style="list-style-type: none"> - Sikusiphi sikhatsi semnyaka? - Ngusiphi sikhatsi semnyaka lesindulile? - Ngusiphi sikhatsi semnyaka lesilandzelako? - Bukisa sikhatsi semnyaka lesikuso sihambisane nenyanga lesikuyo - Bhimbidzwane kuya kuNdlovulenkhulu titfombe telihollo. - Khombisa titfombe lesinesikhatsi semnyaka lesikuso kanye netinyanya lethambisana naso.sib.Bhimbidzwane kuye kuNdlovulenkhulu ungakhombisa titfombe sasehollo. <p>Emanotsi: Lonkhe lwati kumele lwetfulwe ngekwetigaba.</p> <ul style="list-style-type: none"> Tigaba temnyakato (Tetayete kutfola lwati ngemimba nangemiva) Tigaba tetintfo letiphatsekako (sebentisa tintfo letinabobunjwa labangemada-yimenshini lamatsattu (3-D) Tigaba tetintfo letingabambeki (kuveta bunjwa longemadaiyimenshini lamatsattu (3-D) ephepheni sib. imidwebo, kufananissa titfombe, emakhadi ekudala, lishti lekusebentela nj.) Bonke ” bobunjwa labasicaba babitunga ngekutsi bobunjwa labangemada-yimenshini lamabili (2-D). 	<p>Lishadi lesimo selitulu</p> <table border="1"> <thead> <tr> <th>Lisontfo</th> <th>Umsombuluko</th> <th>Lesibili</th> <th>Lesitsatfu</th> <th>Lesine</th> <th>Lesihlanu</th> <th>Umgcibelo</th> </tr> </thead> <tbody> <tr> <td>12</td> <td>13</td> <td>14</td> <td>15</td> <td>16</td> <td>17</td> <td>18</td> </tr> </tbody> </table> <p>Liculo: Emalanga eliviki nobe ucale liculo liculo lelikhuluma ngemalanga eliviki</p> <p>Tikhatsi temnyaka</p> <p>Lungisa nangabe tikhatsi temnyaka tinjintja</p> <p>Tikhatsi temnyaka</p> <p>Lungisa nangabe tikhatsi temnyaka tinjintja</p> <p>Tikhatsi temnyaka</p> <p>Lungisa nangabe tikhatsi temnyaka tinjintja</p>	Lisontfo	Umsombuluko	Lesibili	Lesitsatfu	Lesine	Lesihlanu	Umgcibelo	12	13	14	15	16	17	18
Lisontfo	Umsombuluko	Lesibili	Lesitsatfu	Lesine	Lesihlanu	Umgcibelo										
12	13	14	15	16	17	18										

<p>Liviki 4 Cala ngekutfula etinombolweni</p>	<p>Sikhatsi lesiphakanyisiwe sekufundzisa: Umsebenti muniye wellikiasi loheliwe loholwa nguthishela (sikhatsi sekufundza) emaminithi ± 30 ngelilanga (misebenti yetibalo ± ngeliviki)</p>	<p>Emanotsi lacacisako</p> <ul style="list-style-type: none"> • Tfola ubuye uchaze tinombolo letiphelle. • Tfula inchazelo yenombolo 1 <p>Kubala kusukela ku-1-5</p> <p>Umnyakato</p> <p>Bafundzi ba:</p> <ul style="list-style-type: none"> - Babuke titto temtimba sib. Liso linye. - Bavuma ngehnloko kanye, shaya phasi kanye, zuba kanye njil. - Phakamisa lugalo lune, sinye sandla, lunye luyawo njil. - Babhala inombolo 1 emoyeni naphasi emhabatsini. - Bashaya tanda kanye <p>Lokuphatsekako usebentisa tintfo lettingemadayimenshini lamatsatu (3-D)</p> <p>Bafundzi:</p> <ul style="list-style-type: none"> - Ababuke nobe nguyiphi intfo yinye eklassini. Sib.linye libhuloki lekwakha. - Akha inombolo 1 ngenhlama. 	<p>Tinsita letiphakanyisiwe</p> <p>Liculoo nemiloteloo yetinombolo</p> <p>Bafundzi</p> <p>Tintfo eklasini nangaphandle</p>	<p>Sittfombe sentfo yinye</p>  <p>1 Sibali samunye umfundzi. Tifombe letehlukene tetifombemagama Emakhadigama emacashata</p> <p>Tintfo longatibona longeke utibambe ngekusebentisa bobunjwa labangemada-nobe tifombe</p> <p>Bafundzi aba:</p> <ul style="list-style-type: none"> - Kubona tifombe tentfo yinye emakhadiningama lehlukene. - Condzanisa sittfombekhadi nayinye intfo ekhadini lelinelicashata. - Ngasosonkhe sikhatsi condzanisa likhadisitfombe nelicashtata enombolweni yinye yekubala sib.Incumbi yetinombolo tekubala letifananako ecashatini linye. - Emva kwekutfula inombolo yeku-1 thishela ubukisa ngemakhadigama ekhumbinkutusi bafundzi batibonele onkhe emalanga.
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Sihloko	Emanotsi lacacisako	Tinsita letiphakanyisiwe	Budze besikhatsi lesilinganisive
2.1 Emaphethini e-Jomethri	<ul style="list-style-type: none"> Bona emaphethini emvelo etimpahhleni tebafundzi <p>Bafundzi aba:</p> <ul style="list-style-type: none"> - Bafundzi abkhlume ngemaphethini lebawabonako tikkwemvelo nase - timphahleni tabo. - Nguwaphi emaphethini lanemigca nalanemabhułoki? - Ayafana yini onkhe emaphethini, yini umehluko nalokufanako? - Yini leyenta emaphethini? - Iphethini iyaphindzaphindzeka-imigca/ emabhułoki / nabobuniwa. <p>Tsatsela ubuye uchubela embili emaphethini</p> <p>Umnyakato</p> <ul style="list-style-type: none"> - Thishela ubopha iribhoni leluhata kwasibhakabbaka emkhonweni webafundzi labane. Wenta iphetthini ngekubeka ebafundzi labaneribhoni lebovu embikwelikasi beseukuta labaneribhoni leluhata kwasibhakabbaka kubuye kulandzele labaneribhoni lebovu futsi. Batjele bacedzele lephetthini.. <p>Lokuphatsekako usebentisa tintfo letingemadaiyimenshini lamatsattu (3-D)</p> <ul style="list-style-type: none"> - Thishela wakha emaphethini ngetivalo temabondela 3 letibovu na 4 letiluhata kwasibhakabbaka. - Bafundzi abatsatsele iphetthini yathishela. 		Lilanga 1

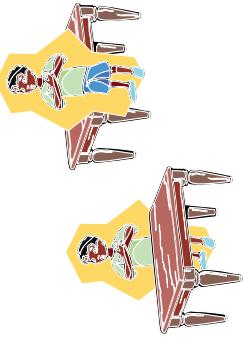
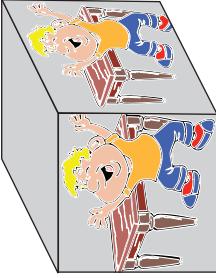
Sihloko	Emanotsi lacacisako	Tinsita letiphakanyisiwe	Budze besikhatsi lesilinganisive
3.2 Tintfo letingemada- yimenshini lamatsatfu (3-D)	Kubona, kutfola ubuye usho emagama abobunja labangemada-yimenshini lamabili lekhona eklasini nasetitombeni Kubu nelikhono lekuhiukanisa tintfo lettingembili naletingemuva Tutufukisa likhono lekubona phakatsi kwetintfo letingaphambili naletisemuva	Tintfo letinyentu eklasini nasendzaweni	Lilanga 1
3.2 Bobunjwa labangemada- yimenshini lamabili (2-D)	Lokubambekako usebentise tintfo letingemadayimenshini lamatsatfu (3-D) Thishela ubeka tintfo letehlukene eklasini nangaphandle. Bafundzi ba: <ul style="list-style-type: none"> - Bakhombie tintfo letehlukene eklasini sib. Tintfo tesigodvo, tintfo letibovu, tintfo letimapulasitiki njil. - Babuka tintfo letitsite eklasini ngekulandzela lokushiwu nguthishela sib. Ibhola etifwensi tekuphatsa letimalojini, timoto temathoyizi ekhabethini, emapeniseli ethinini njil. - Babuka tintfo letifananako sib. Tinkinobho letiyindilinga kulesitikwele emamabula labovukulanemibala njil. - Bahlunga tintfo ngekufana sib:isayizi, umbala, bungyo nobe kubunjwa. - Badiala umdialo, "Ngikuphica ngemehlo lamancane, intlo leyindilinga." 		

Sihloko	Emanotsi lacacisako	Tinsita letiphakanyisiwe	Budze besikhatsi lesilinganisiwe
<ul style="list-style-type: none"> - Babuka tintfo letitsite ngaphandle ngekulandzelza lokushiwu nguthishela sib. Inyoni isesihlahleni, iribnoni isesihlahleni, imbalu lenlie, Incangosi lehamba ecmbeni njil. - Ek haya bafanele bagcugcutelwe kukhipha tonkhe tipunu, emafologo, imikhwa emashelufini. 	<p>Lokubonakalako ungeke ukuphatse usebentisa bobunjwa labangemada-yimenshini lamabili (2-D) nobe tifombe</p> <p>Khomba bafundzi sitfombe ubuye ubabuta imibuto ngesitfombe</p> <p>Sibonelo:</p> <ul style="list-style-type: none"> - “Ibambeni ntifombatana esandleni?” - “Bangaki bantfu lebasemkhunjini?” njil. - Kwakha emaphazili nekudlala tifombe temadominosi kuyindle yekututukisisaindela yekubona kubafundzi. 	<p>Nobe ngusiphi sitfombe kuchaza(liposta)</p>  <p>Emaphazili</p>	
<p>3.2 Tintfo letingemada-yimenshini lamatsattu (3-D)</p> <p>Emanotsi lacacisako</p> <p>Tintfo letingemada-yimenshini lamatsattu (3-D)</p> <p>Umnyakato</p> <p>Bafundzi:</p> <ul style="list-style-type: none"> - Abangene baphume emabbokisini - Batetayete lingekhatsi kwelibhokisi ngekucoca ngaloku lebakubona ekhatsi kwelibhokisi sib.libhokisi limaphasi/ ngaphasi/ emacala lamane likhumbi nesivalo. - Vula libhokisi utowukhona kubona bobunjwa <p>Lokuphatsekako usebentisa tintfo letingemadyimenshini lamatsattu (3-D)</p> <p>Emanotsi lacacisako</p> <p>Tintfo letingemadyimenshini lamatsattu (3-D)</p> <p>Umnyakato</p> <p>Bafundzi:</p> <ul style="list-style-type: none"> - Sebentisa emabbokisi kwakha takhiwo sib. indlu, ligalaj (kusebentise ngesikhatti semakhono ekubona kwakha ngemabbokisi anemasayizi letehlukene) - Nik bafundzi tinsita letinyenti njengetinkinobho, emabbulok langakahianganiswa, tivalo temabbodlela, emaklipu yemapulastiki yetinkwa. 	<p>Tinsita letiphakanyisiwe</p> <p>Budze besikhatsi lesilinganisiwe</p> <p>Nobe ngusiphi sitfombe kuchaza(liposta)</p>  <p>Lilanga 1</p> <p>Tinhlobo temabbokisi lamakhulu nalamancane (sicandzisi lesinganalutto nesitovu selibhokisi)</p>  <p>Emaphazili</p> <p>Tinhlobo temabbokisi lamakhulu nalamancane (sicandzisi lesinganalutto nesitovu selibhokisi)</p> <p>(bafundzi bangabuya nato emakhaya)</p> <p>Emanotsi lacacisako</p> <p>Tintfo letingemada-yimenshini lamatsattu (3-D)</p> <p>Umnyakato</p> <p>Bafundzi:</p> <ul style="list-style-type: none"> - Abahlunge tinsita ngemacembu lafananaiko - Bafola lwati ngetinsita letehlukene. - Bafola kursi ngutiphi tklwelw netindilingga. - Bahlunga tinsita ngekufana kwembala 		

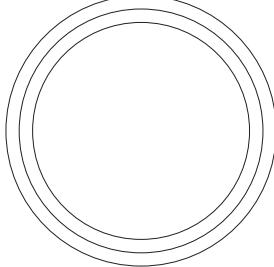
Sihloko	Emanotsi lacacisako	Tinsita letiphakanyisive	Budze besikhatsi lesilinganisiwe
3.3 Bobunjiwa labangemada- yimenshini lamabili(2-D)	<p>Bona, ffola abuye anike emagama abobunjiwa bemandayimenshini lamabili (2-D) eklasini nasetitfombeni</p> <p>Tfula Calantsatfu</p> <p>Nawe yettula calantsatfu kwekucala lensita loyisebentisako ifanele ifane naye ngato tonkhe tindlela (isayizi yinye, umbala lofanako, neburjalo). Calantsatfu unemacala lamatsatfu</p> <p>Umnyakato</p> <p>Bafundzi:</p> <ul style="list-style-type: none"> - Bakha /Benta bobunjiwa ngemitimba yabo sib.bafundzi labatsatfu bakha calatsatfu ngemitimba yabo. - Benta calantsatfu ngetingalo. - Bakha /Bente calantsatfu ngewulu nobe ngeinhlama lokudala. - Bahamba Kubunjwa calantsatfu. Nabahamba bacule batsi, 'Ngihamba kucalantsatfu,kunye, kubili, kutsatfu macala lamatsatfu nobe batsi emakhona lamatsatfu - Batsintsa bobunjiwa. Sebentisa bobunjiwa labakhulu nobe ubekke bobunjiwa labehlukene" esikhwameni seboya." Bafundzi batsintsa bobunjiwa ekhatsi esikhwameni babuye babacondzanisa neliseti lemakhadi ekucondzanisa (emakhadi abobunjiwa ladvwetjye kuwo). - Badvweba calantsatfu emoyeni, phasi, emhlabatsini (ngeshoki) ubuye ubhale ephepheni. <p>Uchaza, ah lungue abuye acatsanise tintfo temadayimenshini lamatsatfu (3-D) nabobunjiwa bemandayimenshini lamabili (2-D)</p> <p>Lokuphatsekako usebentisa tintfo letingemadayimenshini lamatsatfu (3-D)</p> <p>Bafundzi aba:</p> <ul style="list-style-type: none"> - Hlunga bobunjiwa belogi ngebombujiwa (indiliinga nacalantsatfu) isayizi (bukhulu nebuncane) nembalu (lobovu, loluphuti, loluhlata kwetjani) 	<p>Emakhadimdalao latifutufukisa kubonwa kwabombujiwa</p> <p>Intsonfo nenhlama yekudala</p> <p>"Sikhwama sefeli" (Sikhwama sendvwangu lesifikwe ireki etulu) lesinabobunjiwa labatfolakala endzaweni lebakuto.</p> <p>Condzanisa lisetti lemakhadi nabobunjiwa labadvwebiwe kuwo</p> <p>Liphepha leA4 nemakhilayoni Bobunjiwa belogi</p> <p>Tinsita eklasini nangaphandle.</p>	<p>Lilanga 1</p>

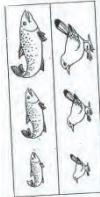
Liviki 5		Umsebenti munye weiklasi loheliwe loholwa nguThishela (tikhatsi tetifundvo) ± 30 emaminithi ngelilianga (± 5 imisebenti yetibalo ngeliviki)		
Sihloko	Emanotsi lacacisako	Tinsita letiphakanyisive	Sikhatsi lesibekiwe	
1.1 Bala tintfo	<p>Chaza ubuye utfolle tinombolo letiphelle.</p> <p>Gcizelela Iwati lebalutfolle evikini 4 leliphatselene nenombolo 1</p> <p>Temlomo: Kubala ngenhloko usuke 1 uye ku-5</p> <p>Umnyakato</p> <p>Bafundzi:</p> <ul style="list-style-type: none"> - Basebentisa kushayisana kwetitfo temtimba sib. Shaya tandla kanye. - Thishela ukhombisa likhadigama leninenombolo 1 bese bafundzi baphakamisa umunwe munye, sandla sinye nelunyawo lune njil. <p>Lokuphatsekako usebentiisa tintfo letingemadayimenshini lamatsattfu (3-D)</p> <p>Bafundzi:</p> <ul style="list-style-type: none"> - Baffola yinje info eklassini. - Babala sinye sibali. <p>Lokubonakalako ungeke ukuphatse usebentisa bobunjiwa labangemada-yimenshini lamabili (2-D) netifombe</p> <ul style="list-style-type: none"> - Matanisa tinhlobonhlobo tetifombe lethamba ngasinye nemakhadi lanelicashati linye. - Matanisa tinhlobonhlobo tetifombe nemakhadi emacashati lanenombolo 1. - Enta euphazili etinombolo kute bafundzi bawamatani sib. 	<p>Sittombe sentfo yinye</p> <p>1</p> <p>kunye</p>	<p>Lilanga 1</p> <p>Emaculo nemilotelo yetinombolo</p>	

Sihloko	Emanotsi lacacisako	Tinsita letiphakanyisiwe	Sikhatsi lesibekiwe
3.4 Umugca lohlukanisa emkhatsini ngalokufanako nangalokulinganako	<p>Gcizelela Iwati lwekutsi umtimba wemuntfu unetinhlangotsi letimbili sib. “Luhlangotsi lunye” “neluhlangotsi lunye” lokuholela esancele neseckudla.</p> <p>Umnyakato</p> <p>Thishela uchaza ngetinhlangotsi letimbili temtimba wemuntfu.</p> <p>Bafundzi:</p> <ul style="list-style-type: none"> - Bema ngelunyawo lunye babuye beme ngalolunye lunyawo lunyawo. - Banyakata balandzele sigci sesikotjokotjo eceleni linye leliklasi. Baya kulinye licala eklassini ngekushaya kwesingci Nangabe kubindza baye kulinye licala. <p>Lokuphatsekako usebentisa tintfo letingemadaiyimenshini lamatsatu (3-D)</p> <p>Munye umfundzi uniketwa ibhinibhegi.</p> <p>Bafundzi:</p> <ul style="list-style-type: none"> - Babeka emabhinibhegi edvute nabo. - Bahambisa ibhinibhegi ngetintwane nangesandla iye kulelinye elicala njil. - Babeka emabhinibhegi phasi eceleni nemitimba yabo babuye bayayihambi iya kulelinye licala. - Ngeta lwati ngekuhlanganisa nebuliko bekubona intfo uyikhiphe njengobe injalo ngekuvumela bafundzi bentte sifrombe seluvevane. <p>(Goca liphepha emkhatsini; raka imibala yemapende ephepheni leligcicie goca sifrombe emkhatsini ufake ipende ngekushikisha sifrombe vula ubuke livivane bese ujuba kuolmayiri-luvevane selinetinceny letimbili letifanako.)</p>	<p>Ishekha ingentiwa ekhaya-a-intfo yekuphatsa, legcwaliswe ematje</p> <p>Ibhinibhegi yamunye umfundzi</p>	Lilanga 1
	<p>3.2 Tintfo letingemada-yimenshini lamatsatu (3-D)</p> <p>Ngenisa ubuye utfole tintfo letigicikako</p> <p>Bona, tfola ubuye unikete emagama etintfo letingemadaiyimenshini lamatsatu (3-D)</p> <p>3.2 Tintfo letingemada-yimenshini lamatsatu (3-D)</p> <p>Chaza “bundilinga” betintfo. Faka tintfo letiyindilinga “esikhwameni seboya” (sikhwama sendvwangu) Bafundzi batsatsa yinye intfo bachaze bundilinga bayo.</p> <p>- Bafundzi bakhombisa kutsi tintfo letinyenti tgicika njani. Silophu lesiphakamisa lifafula ngetitini letimbili.</p>	<p>“Sikhwama sefeli (sikhwama sendvwangu lesinereki etulu)</p> <p>Ekhatsi kwestikhwama kunemabhola lehlukene ngemasayizi timabuli, emasilinda, tiktela letingenalutto tetinatsatfo letibandzako, bobunjwa bepulasitiki labayindiliinga nobe timbonyo temabhdola temapulasitiki.</p>	Lilanga 1

Sihloko	Emanotsi lacacisako	Tinsita letiphakanyisiwe	Sikhatsi lesibekiwe
3.1 Kubekeka, kutetayeta nekubukeka	<p>Kubekeka kwetintfo letimbili nobe letinyenti macondzana nemfundzi</p> <ul style="list-style-type: none"> - Ngaphambili/ ngemuva <p>Umnyakato</p> <p>Thishela ukhetsa bafundzi lababili ngemlolotelo wekubala:</p> <ul style="list-style-type: none"> - Beka titulo letimbili embikwelikasi. - Labafundzi lababili bakhombisa Iwati "ngaphambili, ngemuva" ngekulalela sicondziso sathishela. o Sipho mani ngaphambi kwestitulo o Carl mani ngemuva kwestitulo - Nasebakhona, thishela uphakamisa ifleshikhadi bese bafundzi benta umnyakato basebentisa titulo tabo. - "Loku kungakhonjiswa ngekusebenitisa bafundzi labatsatfu. o Amy ume ngemuva kwaSipho, kodywa Carl ume ngaphambi kwa-Amy. - Thishela unikete bafundzi lidayizi lelikhulu lelinetitfombe letehlukene letikhombisa "ngaphambili, ngemuva" kubhalwe emacaleni sib. Mani ngaphambi kwemuntfu lonetinwele letindze, mani ngemuva kwemuntfu logooke libuluko, hala ngemuva kwalomunye njil. - Bafundzi abadiale umdale emacenjini abo ngekuphosa lidayizi babuye bente umnyakato walapho liwele ngakhona.  	<p>Title Bafundzi</p> <p>Emafleshikhadi laneminyakato "ngaphambili, ngemuva"</p>	Lilanga 1

Sihloko	Emanotsi lacacisako	Tinsita letipphakanyisiwe	Sikhatsi lesibekiwe
3.2 Tintfo letingemada-yimershini lamatsattu (3-D)	<p>Catsanisa kutsi nguyiphi intfo kuletimbili letiniketiwe: lenkhulu naencane.</p> <ul style="list-style-type: none"> • Gcizelela Iwati Iwalokukhulu kuna- nalojuncane kuna-. <p>Umnyakato</p> <p>Bafundzi:</p> <ul style="list-style-type: none"> - Benta imitima ibe mikhulu ngekululu tandla tabo ngetulu kwenhloko. - Benta imitima ibe mincane ngekugobeka batigoce. - Batfola kutsi ngabe injá yinkhulu kuneligundvwane. <p>Lokuphatsekako usebentisa tintfo letingemada yimershini lamatsattu (3-D)</p> <p>Khombisa tintfo letimbili ngasosonke sikhatsi nawucatsanisa.</p> <ul style="list-style-type: none"> - Catsanisa emasayizi lehlukene eluhlobo lunye lwemabholuki, emabholia, emapuleti, emakinobho, itafula situlo njil. Ubuye utfole kutsi ngutiphi tintfo letinkhulu/letincane, letinkhudlwana, letimbalwa, letinkhulu kakhulu/letincane kakhulu. - Yakha takhiwo ngemabholuki ekvakha batfundzi babyé bacatsanisa sabani sakhiwo lesikhulu kakhulu nekutsi sabani lesincane kakhulu. <p>Lokubonakalako ungeke ukuphatse usebentisa bobunjwa labangemada-yimershini lamabili (2-D) netifombe</p> <ul style="list-style-type: none"> - Catsanisa titfombe letikhombisa lokukhulu/lokuncane na lokukhudlwana/lokumbalwa. - Sebentisa "wati" Iwalokukhulu /nalojuncane" ngesikhatsi Sebuciko bekuticambela. 	<p>Siftombe seligundvwane nerja (kucinisekisa kutsi siftombe senja sikhulu kunesiftombe seligundvwane)</p> <p>Tinsita eklassini njenge mabholuki, emabholia, emapuleti, emakinobho, buhluu, tinduku, emaphekisi, emabhokisi emetijiso, tikotela, ematje lamancane, emakhoko, emagobolondvo, timbonyo temabholdela njil.</p> <p>Titfombe letiveta "lokukhulu /nalojuncane"</p>	Lilanga 1

Sihloko	Emanotsi lacacisako	Tinsita letiphakanyisiwe	Sikhatsi lesibekiwe
3.2 Tintfo letingemada- yimemenshi lamatsattu (3-D)	<p>Catsanisa kutsi nguyiphi intfo kuletimbili letiniketiwe:</p> <ul style="list-style-type: none"> - Kukhulu nakuncane - Kukhudlwana nakumbalwa - Kukhulu kakhlulu nalokuncane kakhlulu <p>Umnyakato</p> <p>Thishela udvweba indilinga lencane esantini/esiyilweni/phasi</p> <ul style="list-style-type: none"> - Bafundzi bahamba endilingeni ledvvjetijiwe. <p>Thishela udvweba indilinga lenkhudlwana ngaphandle kwendilinga.</p> <ul style="list-style-type: none"> - Bafundzi bahamba endilingeni lenkhudlwana ledvvjetijiwe. - Thishela uyatuta: <ul style="list-style-type: none"> o Nguyiphi indilinga lencane kakhlulu? o “Nguyiphi indilinga lenkhulu kakhlulu?” o “Hamba endilingeni lencane” o Hamba endilingeni lenkhulu <p>Thishela udvweba lenye indilinga lenkhulu kakhlulu ngaphandle kwendilinga.</p> <ul style="list-style-type: none"> - Bafundzi bahamba nasendilingeni lenkhulu kakhlulu ledvvjetijiwe. - Thishela ubuta imibuto lenjengale: <ul style="list-style-type: none"> o “Ngutiphi tindilinga letinkhulu kakhlulu?” o “Ngutiphi tindilinga lencane kakhlulu?” 		Lilanga 1

Sihloko	Emanotsi lacacisako	Tinsita letiphakanyisive	Sikhatsi lesibekiwe
	<p>Lokuphatsekako usebentisa tintfo lettingemadayimensionshini lamatsattu (3-D)</p> <p>Bafundzi bayahlunga babuye bacatsanisa tintfo letelukene ngekwesayizi (kukhulu, kuncane) sib.</p> <ul style="list-style-type: none"> - Emakinobho lamakhulu kulamancane. - Tipunu letinkhulu kuletincane. - Emabhokisi lamakhulu kulamancane. <p>Lomsebentii ungachutiekiseila emdlalweni wangaphandle (umdlalo wasemhlabsatsini nemdaloo wasemantini) lapho bafundzi bangacatsanisa tintfo babuye bakhulume ngekutsi nguyiphi intfo lembalwa/lenkhulu, lenkhulu kakhlulu na lencane kakhlulu. Kungahlaniswa neBuciko bekubona wente-yenta ikholaji usebentisa tintfo letinkhulu naletincane.</p> <p>Lokubonakalako ungeke ukuphatse usebentisa bobuniwa labangemada-yimensionshini lamabili (2-D) netitfombe</p> <p>Bafundzi:</p> <ul style="list-style-type: none"> - Abadale imidalo yemakhadi babuye batfolaa lokuncane/lokukhulu/lokukhulu kakhlulu - Buta imibuto lenjengale: "Nguyiphi inhlanti yekucala nobe nguyiphi inhlanti yekugcina?" "Nguyiphi inhlanti lesemkhatsini?" <p></p> <p></p> <p></p> <ul style="list-style-type: none"> - Chubekela kutinhlavu kute bafundzi babone kutsi tifombe timele emagama. Bafundzi abakalindzeleki kutsi bafundze tinhlavu.. 		

Liviki 6	Sikhatsi lesiphakanyisiwe sekufundzisa: Umsebenti munye welikasi loholeive loholwa nguThishela (tikhatsi tetifundvo) emaminithi ± 30 ngelilianga(lmisebenti yetibalo ± ngeliviki)	Sikhatsi lesiphakanyisiwe Emanotsi lacacisako	Tinsita letipphakanyisiwe Tingoma teliimbolo nemilolotelotelo Bafundzi	Sikhatsi lesilinganiswe Onkhe emalanga Lilanga 1
Sinloko	1.1 Bala tintfo	Combela ubuye ubale tintfo temalanga onkhe ngekwetsembeka. Kubala onkhe emalanga <ul style="list-style-type: none"> - Temlomo: Kubala ngenhloko/ngesigci kusuka ku-1 - 5. - Cula emaculo nemilolotelotelo yetinombolo 	Kopa ubuye uchubele embili iphethini usebentisa kushayisana kwetitfo temtimba.	   
	2.1 Emaphethini e-Jomethri	Lokuphatsekako usebentisa tintfo letingemadimensehini lamatsatfu (3-D) <p>Umnyakato:</p> <ul style="list-style-type: none"> - Thishela ukhombisa bafundzi iphethini yekushayisana kwetitfo temtimba bafundzi babuye bayitsatsele sib, shaya tandia, shaya tandia, gidza; shaya tandia, shaya tandia, gidza;... Khalisa tingalo, cwabita, khalisa tingalo njii. 	Kopa iphethini ngetintfo sib. <ul style="list-style-type: none"> - Usebentisa tinthobo letehlukene temacembe. - Usebentisa bobunjiwa sib. indilinga, indilinga, calansatfu, indilinga,..... - Usebentisa tintfo sib. liphekisi lelibovu, liphekisi lelibovu, kwasibhakabhaka, liphekisi lelimtfubi, liphekisi lelibovu..... 	Niketa bafundzi amakhadittfombe Emakhadji emibala. Bobunjiwa belLogi Emaphekisi ephiegibhodi

Sihloko	Emanotsi lacacisako	Tinsita letiphakanyisiwe	Sikhatsi lesilinganisiwe
3.3 Bobunjwa labangemada-yimenshini lamabili (2-D)	<p>Bona, utfole ubuye unike ligama lesikwele</p> <p>Ngenisa sikwele</p> <p>Nangabe ungenisa sikwele kwekkucala letintfo letisetiertisiwe kumele tifanane ngayo yonkhe indlela (isayizi lefanako, umbala lofanako, neburjalo). Sirkwele sinemacala lamane. Luku kubitwa ngekutsi sikwele.</p> <p>Umnyakato</p> <ul style="list-style-type: none"> - Lilkasi lonkhe lakha sikwele. - Bafundzi abahambe esikweleni lesakhiwe ngentsambo ekhaphethini nogalesikhatsi batasi 'ngiyahamba esikweleni-licala linye, emacala lamabili, emacala lamatsatfu, emacala lamane onkhe emacala ayafanana' - Emacembu ebafundzi akakhe tikwele letincane. <p>Lokuphatsekako usebentisa tintfo letingemadayimenshini lamatsatfu (3-D)</p> <ul style="list-style-type: none"> - Thishela ukhomba umehluko emkhatsini wendilinga nesikwele ngekuphakamisa simbonyo sesikotela nelithayilisi letisikwele. - Simbonyo siyindilinga kantsi lithayilisi linemingengcema nemakhona. <p>Lokubonakaloko ungeke ukuphatse usebentisa bobunjwa labangemada-yimenshini lamabili (2-D) netitfombe</p> <ul style="list-style-type: none"> - Thishela udwweba atungeletele simbonyo nelithayilisi - Lesimbonyo simele indilinga, lithayilisi limeles sikwele. - Bafundzi batsatsisela simbonyo nelithayilisi i basebentisa emakhilayoni. 	<p>Bafundzi Intsambo</p> <p>Simbonyo sesikotela Lithayilisi letisikwele Tinhlobonhlobo tetimbonyo letisikwele naletitindilinga Imibhalo yemaphephha Emakhilayoni</p>	Lilanga 1
	<p>Hlunga tintfo letingemadayimenshini lamatsatfu (3-D) nabobunjwa labangemada-yimenshini lamabili (2-D) netitfombe</p> <p>Hlukanisa bafundzi ngemacembu.</p> <p>Bafundzi:</p> <ul style="list-style-type: none"> - Hlunga tintfo letingemadayimenshini lamatsatfu (3-D) nabobunjwa labangemada-yimenshini lamabili (2-D) lebaniketwe nguthishele ngekwesayizi nembara. - Gcizelela bobunjwa ngekudlala imidalo nemakhadimdalо ngesikhatsi semdalo lokhululekile ekhatsi endlini. 	<p>Emakhadи abobunjwa Tintfo letingemadayimenshini lamatsatfu (3-D) njengemabholoki, emabnuloki eLeggo. Bobunjwa labangemada-yimenshini lamabili (2-D) njengemidalo legcizelela bobunjwa njengekutsi "Yini lesesikweleni?"</p>	

Sihloko	Emanotsi lacacisako	Tinsita letiphakanyisiwe	Sikhatsi lesilinganiswe
3.2 Tintfo letingemada-yimenshini lamatsattu (3-D)	<p>Bona, tfola ubuye unikete emagama etintfo letingemadyimenshini lamatsattu (3-D) letishelelako</p> <ul style="list-style-type: none"> • Ngenisa tintfo letishelelako <p>Niketa bafundzi tinhlobo letehlukene tetintfo letingemadyimenshini lamatsattu (3-D) nabobunjwa labangemada-yimenshini lamabili (2-D) njengemabhuloki, emabholola, njil.</p> <p>- Vumela bafundzi bahbole ngendlela yekudala kutsi ngutiphi tintfo letingashelela naletingagicka.</p> <p>- Bafundzi bangasebentisa mshelezane enkundleni yekudala nobe thishela angasebentisa litafula ente silayidi ngekubeka titini letimbili ngephasi.</p> <p>- Tikhona yini tintfo letingashelela tiye etulu?</p> <p>- Ngutiphi tintfo letishelelala tiye phasi?</p> <p>- Yini leyenta kutsi letintfo tikhone kusheleta?</p>	<p>Emabholoki Emabholola Emabholokisi Silayidi/ Litafula lelinemabhuloki</p>	Lilanga 1

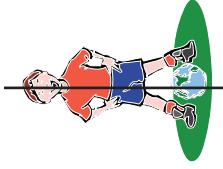
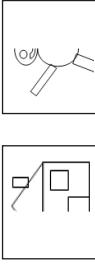
Sihloko	Emanotsi lacacisako	Tinsita letipphakanyisiwe	Sikhatsi lesilinganiswe
3.1 Kubekeka, kutetayeta nekubukeka	<p>Chaza intfo yinye lengemadayimenshini lamatsattu 3-D macondzana naleyne</p> <ul style="list-style-type: none"> Tfuffukisa Iwati Iwa etukwe/ngaphasi/ngentasi/etulu kwe Umnyakato <p>- Umfundzi ngamunye uhala esitulwini sakhe.</p> <p>- Bafundzi balalela ticondziso tathishela bayalandzela ngalesikhatsi benta iminyakato sib, hala esitulwini, laa ngaphasi kwestitulo sakho.</p> <p>- Mani etulu kwestitulo sakho, hala ngaphasi kwelitafula.</p> <p>- Beka tandla takho enhollo yakho.</p> <p>- Beka tandla takho ngaphasi kweetinyawo takho.</p> <p>- Faka ibhinibhegi ekhwapheni lakho.</p> <p>- Hala etukwe bhinibhegi.</p> <p>- Bamba iihulahhubhu ngaphasi kwemadvolo akho.</p> <p>Lokuphatsekako usebentisa tintfo letingemadayimenshini lamatsattu (3-D)</p> <p>- Bafundzi lababili ababambe intsambo yekuzuba likkasi lonkhe bese laba labanye bafundzi bakhassa ngaphasi kwerntsambo.</p> <p>- Funa intfo ngaphasi kwekhaphethi/iiitafula/libbhokisi njil.</p> <p>Lokubonakalako ungeke ukuphate usebentisa bobunjwa labangemada-yimenshini lamabili (2-D) netifombe</p> <p>- Thishela uniketa bafundzi tinhlobonhlobo tetifombe lapho Iwati lwemagama: etukwe, ngaphasi, ngentasi lukhonjiwi sib. Umuntfu lohleti ehhashini, umnttwana lolele ngaphasi kwengubo njil.</p> <p>Bafundzi:</p> <ul style="list-style-type: none"> - Abatfole Iwati Iwabo: etukwe, ngaphasi etifombeni. 	 	Lilanga 1

Sihloko	Emanotsi lacacisako	Tinsita letiphakanyisiwe	Sikhatsi lesilinganiswe
4.1 Sikhatsi	<p>Chaza sikhatsi sellanga ngekwemini/nebusuku, kukhanya/nebumnyama</p> <ul style="list-style-type: none"> Ngenisa lwati lwaletintto letimbili “imini/busuku” “kukhanya/bumnyama” <p>Hanganisa lolwati netinloko telwati lwekucala kuMakhono Ekuphila.</p> <p>Umnyakato</p> <ul style="list-style-type: none"> - Yati bumnyama ngekutsi uhlale ngaphasi kwelitalafula netitulo letimbonywe ngengubo. - Yenta liklasi libe mnyama ngekuvala emakhethini ubuye ucishe gezi. - Bafundzi bakhulumu ngalebakuville/lebakubonile ngalesikhatsi liklasi limnyama nangalesikhatsi likhanyisiwe. - Banikete lithoshi balikhanyise ngaphasi kwingubo. - Khulumu ngemisebenti leyenteka emini naleyenteka ebusuku. <p>Lokubonakalako ungeke ukuphatse usebentisa bobunjwa labangemada-yimenshini lamabili (2-D) nobe tifombe.</p> <ul style="list-style-type: none"> - Thishela ulungisa iphosta yeliangga nenyanga abuye uniketa tifombe kutsi kwentekani emini nasebusuku. - Bafundzi bafaka tifombe tabo phasi kwelilanga nangaphasi kwenyanya. 	<p>Titulo netingubo</p> <p>Lithoshi Iphosta yemini nebusuku. Tifombe temisebenti yasemini neyasebusuku.</p>	Lilanga 1

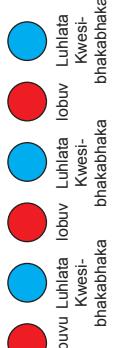
Liviki 7	Umsebenti munye wellikasi ioheliwe loholwa nguThishela (tikhatsi tekufundza) emaminithi ± 30 ngellanga/(misebenti yetibalo ± ngeliviki)	Sikhatsi lesiphakanyisiwe sekufundzisa:	
Sinhoko	Emanotsi lacacisako	Tinsita letiphakanyisiwe	Sikhatsi lesibekiwe
3.3 Bobunjwa labangemada-yimenshini lamabili (2-D)	<p>Bona, tfola ubuye unike emagama abobunjiwa labangemada-yimenshini lamabili (2-D) laseklasini</p> <ul style="list-style-type: none"> • Ngenisa emaphazli ubuye uniketa teluleko ngekutsi akhiwa njani. <ul style="list-style-type: none"> - Cocsanani ngesitifombe sephazlii ngekucaphelisisa imininingware lefana nembalu, bantfu/tilwane, tintfo, kubekaka kwebantfu/tilwane netintifo. - Bona, utfole ubuye umatanise tinhlobo letehlukene tetincetu temaphazlii sib. <ul style="list-style-type: none"> ○ Tincetu tasemakhoneni. ○ Tincetu letinelicala linye lelicondzile 	<p>Tinhlobonhlobo temaphazlii-lanetinctetu letiriks ku -6.</p>	Lilanga 1

Sihloko	Emanotsi lacacisako	Tinsita letiphakanyisiwe	Sikhatsi lesibekiwe
3.1 Kubekeka, kutetayeta nekubukeka	<p>Chaza intfo yinye lengemadayimenshini lamatsatfu (3-D) macondzana nemfundzi</p> <p>Kubekeka kwetintfo letimbili nobe letinyenti macondzana nemfundzi - ekhatsi/ngaphandle</p> <p>Umnyakato</p> <ul style="list-style-type: none"> - Thishela usebentisa isalothe phu lenkhulu nobe intsambo yekuzuba kwenta inigca lembili esiyilweni. - Bafundzi bonkhe bema ecaleni linye kanye na thishela uyamemeta utsi: "ingenani ngekhatsi emfuleni" (Bonkhe bafundzi kumelé bazube emkhatsini wemigca sewuyamemeta utsi "pnumani ngaphandle". bafundzi baphume emfuleni ngala nangala kwemigca yomibili. - Bafundzi lebangalandzeli ticondziso ngendela lengijo bayaphuma, abachubeki nemdhalo. <p>Lokuphatsekako usebentisa tintfo letingemadayimenshini lamatsatfu (3-D):</p> <p>Bafundzi:</p> <ul style="list-style-type: none"> - Bema bucalu nemantji//libhakede - Baphosa emabhinibhegi emanijini. <p>Lokubonakalako ungeke ukuphatse usebentisa bobunija labangemada-yimenshini lamabili (2-D) nobe tifombe</p> <ul style="list-style-type: none"> - Bafundzi badwweba sitfombe lesikhombisa tintfo letingekhatsi nange phandle. 	<p>Umdhalo: Ekhatsi emfuleni (emkhatsini wemigca lembili), ngaphandle kwemigca lembili) Tintsambo letimbili tekuzuba</p>	

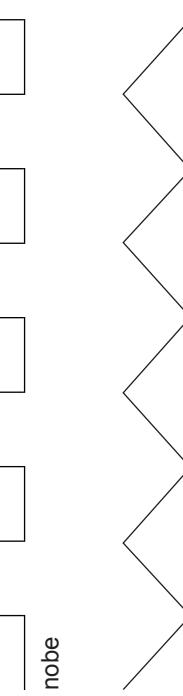
Sihloko	Emanotsi i lacacisako	Tinsita letiphakanyisiwe	Sikhatsi lesibekiwe
3.1 Kubekeka, kutetayeta nekubukeka	<p>Kube keka kwe intiffo letimbili nobe letinyenti letingemadai menshini lamatsattu (3-D) macondzana nemfundzi: etulu/ngaphasi/ngentasi Umnyakato</p> <p>Bafundzi balandzela ticondziso njengerekutsi:</p> <ul style="list-style-type: none"> - Beka ibhuloki lebovu enholloko yemngani wakho. - Beka ibhuloki lemftubi ngaphasi kwelitalula lakho. - Beka lebhuloki enholloko yakho bese ugibela etulu etafuleni. - Khasa ngaphasi kwelitalula uvale emehlo <p>Lokuphatsekako usebentisa tintfo letingemadai menshini lamatsattu (3-D)</p> <p>Bafundzi:</p> <ul style="list-style-type: none"> - Paka bocalantsattu balekanyane. - Paka tikwele letiluhlata kwsibhakabhaka tiekanyane. - Beka indilinga lebovu ngaphasi kwsikwele lesimtfubi. - Beka indilinga lemftubi nacalantsattu lobovu ngaphasi kwe sirkwele lesiluhlata kwsibhakabhaka. <p>Lokubonakalako ungeke ukuphatse usebentisa bobunjiwa labangemada-yimenshini lamabili (2-D) netitfombe.</p> <ul style="list-style-type: none"> - Thishela ulungisa emakhadi lanetitfombe nemakhadi lanabobunjiwa ngekwehlukana. - Bafundzi kumele babeke bobunjiwa etulu/ngaphasi kwe tifombe hjengekusho kwathishela Sib. Beka bunjiwa loluhlata kwsibhakabhaka etulu kwemanji yetitselo. 	<p>Emabhuholiki ekwakha/emabhuholiki eyunifikasi langakah/anganiwa</p> 	Lilanga 1

Sihloko	Emanotsi i lacacisako	Tinsita letiphakanyisiwe	Sikhatsi lesibekiwe
3.4 Umugca lohlukanisa emkhatsini ngalokufunganako nangalo kulinganako	<ul style="list-style-type: none"> Giczelela Iwati Iwemugca lohlukanisa emkhatsini kulingane kufanane kubo (emitimbeni yabo) <p>Umnyakato Bafundzi:</p> <ul style="list-style-type: none"> Basho tiffo temtimba yabo. Bacula nobe nguliphi liculo letifo temtimba lelinemyakato. <p>Thishela ukhombisa umugca lohlukanisa emkhatsini ngekulengisa intsambo embikwembi kwemfundzi.</p> 	<p>Liculo "Inholoko, emahlombe, emadvolo netintwane"</p> <p>Intsambo yinye yekukhombisa imitimba yebafundzi.</p> <p>Bafundzi kumele babenesitfombe sekutsi imitimba yabo ihlukaniswe kabil.</p> <p>Thishela uchazza indlela lewuhlukaniswe ngayo umtimba waba tinhlangotsi letimbili lekutisawa ngumugca lohlukanisa emkhatsini.</p> <ul style="list-style-type: none"> Tonkhe tiffo temtimbu umunfu lanato lethamba ngaletimbili tikhona kuletinhangotsi totimbili temtimba sib. emehlo, tindlebe, tandla, imilente njil. Siffo semtimba lesisinye sisemkhatsini wemugca lohlukanisa emkhatsini sib imphumulo, umlomo, inkhaba. <p>Kulawula umugca lohlukanisa emkhatsini ngalokufananako nangalokulinganako.</p> <p>Bafundzi:</p> <ul style="list-style-type: none"> Bayamasha, baphakamise emadvolo etulu. Bamasha "njengelisotja." Baphambanisa tandla netinyawo ngalesikhatsi bamasha. <p>Hlanganisa lebakwendako neBuciko bekwenta kuMakhono Ekuphila Lokubonakalako ungeke ukuphatse usebentisa bobunjwa labangemada-yimenshini lamabili (2-D) nobe titfombe.</p> <ul style="list-style-type: none"> Dwewba titfombe letingakapheleli ephepheni bese ucela bafundzi kutsi baticedzele. 	Lilanga 1

Sihloko	Emanotsi lacacisako	Tinsita letiphakanyisiwe	Sikhatsi lesibekiwe
3.1 Kubekeka, kutetayeta nekubukeka	<ul style="list-style-type: none"> Kubekeka kwetintfo letimbili nobe letinyenti letingemadayimenshini lamatsattu (3-D) macondzana nemfundzi <ul style="list-style-type: none"> - etulu na phasi. <p>Umnyakato</p> <p>Bafundzi:</p> <ul style="list-style-type: none"> - Bakhombisa "etulu" na "phasi" ngekuhambisa imitimbä yabo iye etulu naphasi ngekwesicondziso sathishela. - Bagibela titepisi letimbili ngalesikhatsi babala titepisi. - Behla letitepisi letimbili ngalesikhatsi babala. - Bagibela babuye behle entfweni lengaphandle. - Bagibela babuye behle esitepisisini lesakhiwe ngentsambo nangabe sikhona esikolweni. - Babuka etulu naphasi. <p>Lokubonakalako ungeke ukuphatse usebentisa bobunjwa labangemada-yimenshini lamabili (2-D) nobe tifombe.</p> <p>Bafundzi:</p> <ul style="list-style-type: none"> - Thishela uniketa bafundzi tifombe letehlukene letikhombisa kuya etulu naphasi. • sib. Umunfu logibela intsaba, ibhaloni leya etulu naphasi emoyeni, umunfu lowehla titepisi njil. <p>Bafundzi:</p> <ul style="list-style-type: none"> - Baftola lwati lwekuya etulu/kukhuphuka wehle etiftombeni. 	<p>Cula liculo</p> <p>Sebentisa titepisi esikoleni ijangilijimu (tintfo tekugibela)</p> <p>Sitepisi sentsambo</p> 	Lilanga 1

Liviki 8	Sikhatsi lesiphakanyisiwe sekufundzisa: Umsebenti munye weliklasi iohlelive loholwa nguThishela (tikhatsi tetifundvo) emaminithi ± 30 ngelilanga(lmisebenti yetibalo ± ngeliviki)	Budze besikhatsi lesilinganisiwe	
Sinloko	Emanotsi lacacisako	Tinsita letipphakanyisiwe	
3.4	<ul style="list-style-type: none"> • Kuwela umugca lohlukanisa emkhatsini lokufaka kubala <p>Umugca lohlukanisa emkhatsini ngalokufananako Bafundzi:</p> <ul style="list-style-type: none"> - Bantijkitia bazube ngesigci ngalesikhatsi babala. - Bema babukane babuye bashaye tandla batiphambanise (sandla sesencelle semfundzi siphambana nesalomunye sekula) bacula liculo nemlolotelowetinombolo. <p>Lokuphatsekako usebentisa tintfo letingemadymenshini lamatsatfu (3-D) Bafundzi:</p> <ul style="list-style-type: none"> - Baphosa ibhola kubangani ngalesikhatsi babala. - Bahamba entsanjini lejekile ucula liculo sib. "Indlovu yinye lencane iyasima" - Bakahlela ibhola isukekolumunye iye kulomunye. <p>Lomsebenti longenlia unghahlanganisiwa neMakhono Ekuphila.</p>	<p>Bafundzi Emaculo nemlolotelolo yetinombolo</p>  <p>Ibhola, intsambo</p>	Lilanga 1
2.1	<ul style="list-style-type: none"> • Ticambele emaphethini <p>Umnyakato Bafundzi abacambé iphethini basebentisa:</p> <ul style="list-style-type: none"> - Imitimba yabo sib. yinye infombatane nellogo , bafana lababili nemabhuluko <p>Lokuphatsekako usebentisa tintfo letingemadymenshini lamatsatfu (3-D)</p> <ul style="list-style-type: none"> - Kusebentisa bobunjwa lababovu sib. tıkwele leti -2 letiuhliata kwsibhakabhabka, bocalantisatı laba -2 lababovu, tıkwele leti -2 letiuhliata kwsibhakabhabka... - Sebentisa iphethini ngesikhatsi semsebenti webuciko ngekusebentisa ipendi lebovu naletuhliata kwsibhakabhabka netimbonyo temabhodlela. 	<p>Bobunjwa bempulasitki lababovu naletuhliata kwsibhakabhabka.</p>  <p>Kusebentisa timbonyo temabhodlela nependi lebovu naletuhliata kwsibhakabhabka</p> 	Lilanga 1
Emaphethini e-Jomethri	<p>Lokubonakalako ungeke ukuphatse usebentisa bobunjwa labangemada-yimenshini lamabili (2-D) nobe tittombe Bafundzi:</p> <ul style="list-style-type: none"> - Basebentissa tiffupha kwenta imingcengcema yemibala ngependi sib . Loluuhata kwejiani, loluphuti, loluhata kwejiani..... ngetulu kwennngcengcema weliphepha (umsebenti ungentiwa ngesikhatsi seBuciko bekubuka wente) 	<p>Liphepha le - A4</p> <p>Ipendi leluuhata naletuhliata nobe leminte imibala lekhona</p>	

Sihloko	Emanotsi lacacisako	Tinsita letiphakanyisiwe	Budze besikhatsi lesilinganisive
3.2 Tintfo letingemada-yimenshini lamatsattu (3-D)	<p>Bona, tfola ubuye unike emagama etintfo letingemadyimenshini lamatsattu (3-D)</p> <ul style="list-style-type: none"> • Gcizelela Iwati Iwetintfo letigicikako <p>Lokuphatsekako usebentisa tintfo letingemadyimenshini lamatsattu (3-D)</p> <p>Bafundzi:</p> <ul style="list-style-type: none"> - Badiala ngemabhoodela epulasitiki, tiktela, emabholia, li wolintji, njil babuye battola tintfo letingagicika. <p>Thishela uyabuta:</p> <ul style="list-style-type: none"> - Nguwaphi emabholoki langagicika ekhoneni lemabholoki? - Emabholoki angeke agicike ngobe anemacala lacondzile. - Gicitia tintfo ubone letingagicika naletingeke tigicike. - Bafundzi batawati kwekutsi tintfo letiyindillinga tingagicika. 	<p>Emanotsi lacacisako</p> <p>Tintfo letiphakanyisiwe</p> <p>Lilanga 1</p>	<p>Emabhoodela epulasitiki</p> <p>Emabholoki, emabholoki eLego</p> <p>Tikotela, tinhomishi temapulasitiki, emabholoki eliphepha lasendlini lencane, emakhandelia, liwolintji, emabholia njil.</p>

Sihloko	Emanotsi lacacisako	Tinsita letiphakanyisiwe	Budze besikhatsi lesilinganisiwe
3.1 Kubekeka, kutetayeta nekubukeka	<ul style="list-style-type: none"> Tfutufkisa lwati letinkhombandella ngekungenisa lwati lwetintfo letimbili “embili/emuva” na “phambili/nasemuva” <p>Umnyakato Bafundzi: Balandzela tinhombandella tathishela (ayedwa /nobe njengelunga lelicembu) babuye bema etindzaweni letintyentii ekhatsi eklassini.</p> <p>sib.</p> <p>Bafundzi</p> <ul style="list-style-type: none"> - “Mani phambili” “kweliklasi.(phambili kweliklasi akube ngulapho kunemnyango ngakhona) - “Mani emuva” kweliklasi. - Hamba uye emuva naphambili. - Khasa uye emuva naphambili. - Zuba uye emuva naphambili. <p>Thishela udwyelba iphethini estylweni ngeshoki nobe emhabatsini sib.</p>  <p>nobe</p> <p>Lokudvwijwe phasi emhabatsini.</p>	Lilanga 1	
		<p>Lokuphatsekako usebentisa tintfo letingemadaiemenshini lamatsatfu (3-D)</p> <p>Bafundzi:</p> <ul style="list-style-type: none"> - Abahambe/bakhase emalayinini ephethini. - Faka liphepha lelibovu ekhoneni lelimele tibane tasemgwacweni. Nangabe bafundzi bayu ekhoneni kumele bagucuke kute babone indela. <p>Liphepha lelibovu</p> <p>Emabholoki ekwakha</p>	

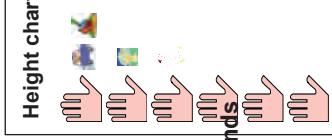
Sihloko	Emanotsi lacacisako	Tinsita letiphakanyisiwe	Budze besikhatsi lesilinganisiwe										
5.1 Gcogca ubuye uhlunge tintfo	<ul style="list-style-type: none"> • Ngenisa lwati lwekusebenta ngedatha ngekusebenta (imitimba yabo) kugcogca tintfo eklasini ngekwetimpawu letiniketive sib. <p>Umnyakato</p> <p>Hlukanisa bafundzi babe ngemacembu</p> <ul style="list-style-type: none"> - Kulinye licembu bonkhe bafana abeme emigceni bese onkhe emanffombatane ema emigceni edvute nebaftana. - Bafundzi ababale linani lebaftana nelemanffombatane ecenjini ngalinye. - Ngaloko ungenta igrafu yemtimba yebaftana nobe yemanffombatane licembu ngalinye. <p>Dvweba igrafu kuveta idatha</p> <p>Lokuphatsekako usebentisa tintfo letingemadymenshini lamatsatu (3-D)</p>	<p>Bafundzi labeme emigceni lemibili</p> <table border="1"> <tr> <td>Emanffombatane</td> <td>Bafana</td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>2</td> <td>3</td> </tr> </table>	Emanffombatane	Bafana	<input type="checkbox"/>	2	3	Lilanga 1					
Emanffombatane	Bafana												
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2	3												
5.2 Veta ligcogco letintfo letihlungiwe	<p>Coca ubuye ubike ngetintfo letigcogcwe tabuye tahlungwa</p> <p>Dvweba igrafu kuveta idatha</p> <p>Lokuphatsekako usebentisa tintfo letingemadymenshini lamatsatu (3-D)</p> <ul style="list-style-type: none"> - Bafundzi bangasebentisa lwati lousetulu kuffufukisa emagrafu etintfo letingemadymenshini lamatsatu (3-D) ngekusebentisa emabhuloki/bobunjiwa nili labamele umfundzi ngamunye. <p>Fundza ubuye uvete idatha kugrafu</p> <p>Lokubonakalako ungeke ukuphatsi usebentisa bobunjwa labangemada-yimenshini lamabili (2-D) nobe titfombe</p> <ul style="list-style-type: none"> - Bafundzi bentia emagrafu ngekusebentisa inhlama kwenta emabholka lamancane lamele loku lebakuchazako emsebentini londulile. - Niketa bafundzi emaphepha lanesitfombe semfana nentfombatane etulu kwelikhasi ngalinye lemfundzi. - Bafundzi abagcite emabholka lamele linani lemanffombatane nebaftana emacenjini abo. - Bafundzi babeka linani lemabholka ngaphasi kwesitfombe lefanele. 	<table border="1"> <tr> <td>Emanffombatane</td> <td>Bafana</td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>2</td> <td>3</td> </tr> </table> <p>Inhlama</p> <p>Liphepha le-A4</p>	Emanffombatane	Bafana	<input type="checkbox"/>	2	3						
Emanffombatane	Bafana												
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2	3												

Liviki 9 Sikhatsi lesiphakanyisiwe sekufundzisa: Umsebenzi munye welikasi loheliive loholwa nguThishela (tikhatsi tetifundvo) emaminithi ± 30 ngelilianga(lmisebenti yetibalo ± ngeliviki)	Budze besikhatsi lesilinganisive						
Sinloko 3.2 Tintfo letingemada-yimenshini lamatsattu (3-D)	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="background-color: #f4a460; color: white; text-align: center;">Emanotsi i lacacisako</th> <th style="background-color: #f4a460; color: white; text-align: center;">Tinsita letipphakanyisiwe</th> <th style="background-color: #f4a460; color: white; text-align: center;">Budze besikhatsi lesilinganisive</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">  ibhola <ul style="list-style-type: none"> - Nguypifi info letingagicika? - Kungani libhokisi lingagicika? - Ngutiphi info letingashhelela? </td> <td style="text-align: center;">  libhokisi <ul style="list-style-type: none"> - Thishela ukhomba bafundzi kutsi libhokisi lelinecala lamanne (emakhona) ngaloko angeke ligicike, kodwva ibhola ayinamakhona, ingagicika. - Gcugcutela bafundzi kutsi batfole tintfo eklassini letingagicika tibuye tishelele. - Buta bafundzi kutsi bangatitfola tintfo letingashhelela tibuye tigicike </td> <td style="text-align: center;"> Lilanga 1 </td></tr> </tbody> </table>	Emanotsi i lacacisako	Tinsita letipphakanyisiwe	Budze besikhatsi lesilinganisive	 ibhola <ul style="list-style-type: none"> - Nguypifi info letingagicika? - Kungani libhokisi lingagicika? - Ngutiphi info letingashhelela? 	 libhokisi <ul style="list-style-type: none"> - Thishela ukhomba bafundzi kutsi libhokisi lelinecala lamanne (emakhona) ngaloko angeke ligicike, kodwva ibhola ayinamakhona, ingagicika. - Gcugcutela bafundzi kutsi batfole tintfo eklassini letingagicika tibuye tishelele. - Buta bafundzi kutsi bangatitfola tintfo letingashhelela tibuye tigicike 	Lilanga 1
Emanotsi i lacacisako	Tinsita letipphakanyisiwe	Budze besikhatsi lesilinganisive					
 ibhola <ul style="list-style-type: none"> - Nguypifi info letingagicika? - Kungani libhokisi lingagicika? - Ngutiphi info letingashhelela? 	 libhokisi <ul style="list-style-type: none"> - Thishela ukhomba bafundzi kutsi libhokisi lelinecala lamanne (emakhona) ngaloko angeke ligicike, kodwva ibhola ayinamakhona, ingagicika. - Gcugcutela bafundzi kutsi batfole tintfo eklassini letingagicika tibuye tishelele. - Buta bafundzi kutsi bangatitfola tintfo letingashhelela tibuye tigicike 	Lilanga 1					

Sihloko	Emanotsi lacacisako	Tinsita letipphakanyisive	Budze besikhatsi lesilinganisiwe
3.3 Bobunjwa labangemada-yimenshini lamabili (2-D)	<p>Bona, tfola ubuye unike emagama abobunjwa labangemada-yimenshini</p> <ul style="list-style-type: none"> - Umnyakato <p>Bafundzi:</p> <ul style="list-style-type: none"> - Bakha indilinka ngekusebentisa iminwe yabo. - Bakha indilinka ngekusebentisa tandla totimbili. - Bahilala ekhaphethini, bente indilinka babambene ngetandla. - Bahamba endilingeni lenkhulu, leyentiwe ngentsambo ekhaphethini. - Badilala umdila lapho bafundzi bahilala endilingeni bacule liculo. o Muniye umfundzi nangabe ngaphandle kwendilinga uyajima atungeletele indilinka abambe ibhola ngetandla. o Umfundzi ukhetsa kubeka ibhola emva kwalabanye bafundzi lebaheli endilingeni. o Umfundzi lokhetesiwe utsatsa ibhola ayiphose kulabanye agijima endilingeni kute akhone kuyohlala esikhaleni lesivulekile. o Nangabe ibhola itsintsas umfundzi logijimako, uhamba ayohlala emkhatsini wendilinga umdila uchubeke <p>Lokuphatsekalo usebentisa tintfo letingemadayimenshini lamatsatu (3-D)</p> <p>Bafundzi:</p> <ul style="list-style-type: none"> - Batfola tintfo leyindilinga eklasini. - Batfola bobunjwa labamele indilinka. <p>Lokubonakalako ungeke ukuphatse usebentisa bobunjwa labangemada-yimenshini lamabili (2-D) nobe tifombe</p> <ul style="list-style-type: none"> - Tishela ubala tintfo ngemagama ato bese bafundzi batfola kutsi ngyuyphi tintfo letiyindilinga sib. liwolintji, linnhabhula, litatula, libhoku, imabuli, libhoku, libhokisi njil. 	<p>Lilanga 1</p>	<p>Ibhola yetinyawo, ithenisi, Ibhola yegalufu, lihabhula, liwolintji, ihhulahhubhu, njil emamabula, libhoku, libhokisi</p>

Sihloko	Emanotsi lacacisako	Tinsita letipphakanyisive	Budze besikhatsi lesilinganisive
3.1 Kubekaka, kutetayeta nekubukaka	<p>Kubekaka kwentfo yinye nobe letimbili macondzana naleyne</p> <ul style="list-style-type: none"> Ligama edvute na/ emkhatsini-tihlanganisive nemibala Umnyakato <p>Thishela ubita bafundzi labatsatfu</p> <p>Ukhombisa lwati lwabo edvute ne- nasemkhatsini ngekuhela bafundzi ngetindlela letinyenti.</p> <ul style="list-style-type: none"> - Craig ume edvute na Steve. - Mel ume emkhatsini waCraig na Steve. <p>Lomsebenti ungraphindwa ngalabanye bafundzi.</p> <p>Thishela unika bafundzi emabholoki ekwakha lanemibala lehlukene abuye abaniketa ticondziso njengekutsi:</p> <ul style="list-style-type: none"> - Beka ibhuloki lebovu edvute kwalentfubi - Beka ibhuloki leluhlata kwasibhakkabha emkhatsini walebovu nalementfubi. <p>Lokuphatsekako usebentisa tintfo letingemadaiyimenshini lamatsattu (3-D)</p> <p>Kusebentisa emabhinibhegi lanemibala lehlukene (lobovu, loluhlata kwasibhakkabha, lomtfubi, loluhlata kwejtjani), niketa bafundzi ticondziso:</p> <ul style="list-style-type: none"> - Beka ibhinibhegi leluhlata kwasibhakkabha edvute nebbhinibhegi temtfubi - Beka ibhinibhegi lebovu emkhatsini webhinibhegi leluhlata kwasibhakkabha nalementfubi. <p>Lomsebenti unghahlanganiswa NeMakhono Ekuphila.</p>		Lilanga 1

Sihloko	Emanotsi lacacisako	Tinsita letipphakanyisive	Budze besikhatsi lesilinganisiwe
3.2 Tintfo letingemada-yimenshini lamatsatfu (3-D)	<p>• Hlela tintfo letengca kuleimbili kusukela kusukcane uye kulkukhulu kakhulu</p> <p>Umnyakato: Niketa bafundzi inhlama kutsi bente emabholo.</p> <ul style="list-style-type: none"> - Emacenjini bafundzi bahlela emabholo enhlama lamancane kusukela kulencane uye kulenkulu kakhulu nekusuka kulkhulu uye kulencane. <p>Lokuphatsekako usebentise tintfo letingemada-yimenshini lamatsatfu (3-D)</p> <ul style="list-style-type: none"> - Lilunga ngalinye lelicembu kumele litfole intfo ekasini. - Bafundzi abahiele tintfo labatitfolako ekasini kusukela kulencane uye kulenkulu kakhulu emacenjini abo. <p>Thishela uniketa bafundzi emabhuku lamadzala etinombolo telucingo.</p> <p>Bafundzi:</p> <ul style="list-style-type: none"> - Badzabula emaphephha emabhukwini etinombolo telucingo babuye bawafohlote bakhe emabholo emacenjini abo. - Bafundzi kumele bacatsanise kutsi nguyiphii ibhola lenkhulu kakhulu na lengane kakhulu. <p>Lokubambekako usebentise tintfo letingemada-yimenshini lamatsatfu (3-D) netifombe</p> <ul style="list-style-type: none"> - Niketa bafundzi liphepha lelinetifombe tetintfo letinkhulu naletincane. - Bafundzi bangafaka umbala etintfweni letinkhulu babuye bafake indilinya etintfweni letincane. 	Inhlama yekudlala Noma nguyiphii intfo ekasini. Emabhuku lamadzala etinombolo telucingo Liphepha le-A-4 lelinetifombe	Lilanga 1

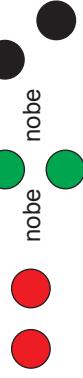
Sihloko	Emanotsi lacacisako	Tinsita letipphakanyisive	Budze besikhatsi lesilinganisiwe
4.2 Budze	<p>Catsanisa ubuye uhiela tintfo ngendlela lelula ngekusebentisa silulumagama lesifanele kucaza budze</p> <ul style="list-style-type: none"> - Lokudze kakhulu /Lokufisha kakhulu <p>Umnyakato</p> <ul style="list-style-type: none"> - Thishela ubita bafundzi labane abuye acele likasi likusite kubahlela ngebudze nebufisha. - Bafundzi abatihlele ngebudze nebufisha emacenjini. - Munye umfundzi nangabe anamatsese ekhumbini labanye bakale budze bakhe ngetandla. <p>Lishadi lebudze</p> 	<p>Lilanga 1</p>	
	<p>Lokuphatsekako usebentisa tintfo letingemadymenshini lamatsatfu (3-D)</p> <p>Thishela ubeka tintfo letinyenti etafuleni kumacembu njengerula, emapeniseli, emakhilayoni, iraba, njil.</p> <ul style="list-style-type: none"> - Hlunga tonkhe tintfo letindze naletimfisha ndzawonye. - Bafundzi bahlela tintfo ngebudze ngalokudze kakhulu. <p>Lishadi lebudze</p> <ul style="list-style-type: none"> - Thishela unelishadi lebudze elubondzeni lapho bafundzi batikala khona. - Sebentisa emakhadi etimphawu tebafundzi kukhombia budze bamunye eshadini lebudze. - Thishela kanye nebafundzi batawufika esiphettweni sekutsi Sipho mudze ngetandla letisittupha na Abby mudze ngetandla letisihlanu ngobe mfisha. 	<p>Irula, Emakhilayoni Ipeniseli, Iraba, njil</p> <div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> <p>Height chart</p>  </div> <p>Sipho ulingana netandla le -6</p> <p>Abby ulingana netandla le -5 hands</p>	

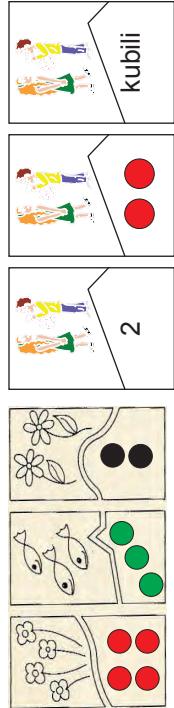
Liviki 10	Sebentisa liviki le -10 kusebenta ngebulikhuni betintfo na/nobe utfolo loko lokutihibe ekufundzeni	LOKUCUKETFWE	SIHLOKO	UMGOMO WEKUHLOLA
Tinombolo, timphawu tekubala nebulelwane	1.1 Bala tintfo	Ucombelba abuye abale ngenhloko kufika ku -5 (Emaculo nemilolotelo yetinombolo lefakelwe kutfutukisa lwati lwetinombolo)		
		Ubona tinombolo kutingcikitsi letetayelekile - sib iminyaka, irejista		
		Uvisisa kuhleleka kwetinombolo (sib. Ngesikhatsi sekuya endlini lencane)		
		Uvisisa kucondzana kvakunye kulokunye (ishadi lebasiti ngesikhatsi sekudla)		
		Uffola titfombe tetinombolo nemakhadi emacashati lafaka inombolo -1		
		Wati inombolo -1		
		Ubona ligama lenombolo -1		
	1.6 Emasu ekusombuluu tinkinga tetibalo	Usebentisa tinsita letiphatsekako Uchaza lakucabangako ngemagama nangemidwewebo nobe tintfo letiphatsekako.		
Emaphethini nemafangishini	2.1 Emaphethini e-Jomethri	Ubona emaphethini endzaweni Utsatsela,achubekisele embili abuye atakhele emaphethini		

Liviki 10	Sebentisa liviki le -10 kusebenta ngebulukhuni betintfo na/nobe utfole loko lokutihibe ekufundzeni	UMGOMO WEKUHLOA
LOKUCUKETFWE	SIHLOKO	
Sikhala nabunjwa (Jomethri)	<p>Kubekeka, kutetayeta nekubukeka</p> <p>3.1</p> <p>Tintfo te-Jomethri letingemadayimenshini lamatsatfu (3-D) na 3.2 Bobuniwa labanggemadyimenshini lamabili (2-D)</p> <p>3.2</p> <p>Ubona, atfole abuye anike emagama emabholia</p> <p>Ubona, atfole abuye anike emagama emabholia</p> <p>Ubona, atfole abuye anike ligama leluphawu lwakhe, timphawu tebangani neligama lelikiasi</p> <p>Uhanganisa iphazili lenetincketu leti -6</p> <p>Ukhombisa likhono lekuhlukanisa tintfo letisemuva naphambili esittombeni</p> <p>Utfola abuye abone calantsatfu</p> <p>Utfola abuye abone indilinga</p> <p>Utfola abuye abone calantsatfu</p> <p>Utfola abuye abone sikwele</p> <p>Ucatsanisa kutsi nguyiphi intfo kuletimbii letigcogciwe lenkhulu, lencane, lenkhulu kakhulu, lencane kakhulu.</p> <p>Uhlunga tintfo ngekxesayizi: lokukhulu naloenkancé</p> <p>Umbala- imibala yemvelo (lobovu, lomtfubi, loluhlata kwestibhakkabhabka</p> <p>Bunjwa- indilinga, calantsatfu nesikwele</p> <p>Tintfo letigicikako</p> <p>Tintfo letishelelako</p> <p>Utmugca lohluukanisa emkhatsini ngalokufananako nangalokulinganakoye.</p> <p>3.4</p> <p>Umugca lohluukanisa emkhatsini ngalokufananako nangalokulinganakoye .</p> <p>4.1</p> <p>Sikhatsi</p>	<p>Wati phambi kwe/emuva</p> <p>Wati etukwe, etulu, ngaphasi, ngentasi</p> <p>Wati ekhatsi, ngaphandle</p> <p>Wati etulu, phasi</p> <p>Ukhombisa lwati lwekuhlukanisa emkhatsini wetintfo "tasembili nasemuva"</p> <p>Ubuna, atfole abuye anike emagama emabholia</p> <p>Ubuna, atfole abuye anike emagama emabholia</p> <p>Ubuna, atfole abuye anike ligama leluphawu lwakhe, timphawu tebangani neligama lelikiasi</p> <p>Uhanganisa iphazili lenetincketu leti -6</p> <p>Ukhombisa likhono lekuhlukanisa tintfo letisemuva naphambili esittombeni</p> <p>Utfola abuye abone calantsatfu</p> <p>Utfola abuye abone indilinga</p> <p>Utfola abuye abone calantsatfu</p> <p>Utfola abuye abone sikwele</p> <p>Ucatsanisa kutsi nguyiphi intfo kuletimbii letigcogciwe lenkhulu, lencane, lenkhulu kakhulu, lencane kakhulu.</p> <p>Uhlunga tintfo ngekxesayizi: lokukhulu naloenkancé</p> <p>Umbala- imibala yemvelo (lobovu, lomtfubi, loluhlata kwestibhakkabhabka</p> <p>Bunjwa- indilinga, calantsatfu nesikwele</p> <p>Tintfo letigicikako</p> <p>Tintfo letishelelako</p> <p>Utmugca lohluukanisa emkhatsini ngalokufananako nangalokulinganakoye.</p> <p>3.4</p> <p>Umugca lohluukanisa emkhatsini ngalokufananako nangalokulinganakoye .</p> <p>4.1</p> <p>Sikhatsi</p>
Silinganiso		<p>Usebentisa emagama lafana nalawa: imini, busuku, kukhanya nebumnyama, ekuseni, ntsambama, ebusuku nakachaza sikhatsi selianga</p> <p>Uhela tigameko letilandzelanako emphilweni yakhe yemalanga onkhe</p> <p>Wati emalanga elivki, tigaba temnyaka nesimo selitulu</p> <p>Wati iusuku lwakhe lwekutalwa</p>

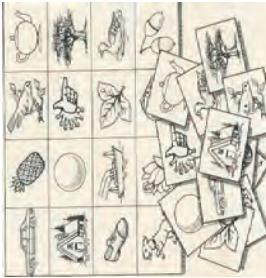
Liviki 10	Sebentisa liviki le -10 kusebenta ngebulikhuni betintfo na/nobe utfole loko lokutihibe ekufundzeni	UMGOMO WEKUHLOLA
LOKUCUKETFWE	SIHLOKO	
Kusebenta ngedatha	4.2 Budze	Uhlukanisa emkhatsini walokudze, lokudzana nalokudze kakhulu, lokufisha, lokufishanyana, nalokufisha kakhulu (ishadi lebudze)
	5.1 Gcogca ubuye uhlunge tintfo	Ukhona kugcogca, ahlunge, advwebe, afundze abuye avete (ahlatiye) tintfo ngekwelluphawu lunye.
	5.2 Veta tintfo letigcogiwe	
	5.3 Cocisana ubuye wetfuli umbiko ngeliggogco leihlungiwe	

Livki 11		ITHEMU 2 TIBALO LIBANGA R		
Sihloko	Sikhatsi i lesiphakanyisiwe sekufundzisa: Umsebenti munye loheliwe loholwa nguthishela (tikhatsi tetifundo) emaminiti ± 30 ngelilanga (Imisebenti yetibalo ± 5 ngeliviki	Emanotsi lacacisako	Tinsita letiphakanyisiwe	Budze besikhatsi lesilinganiswe
1.1 Bala tintfo	<ul style="list-style-type: none"> Ngenisa inshokutsi yenombolo -2 <p>Temlomo: Kubala tintfo letisjetentiswa malanga onkhe urike ku -2 Bala uye phambili nasemuva urike ku -2 Bala ngenhloko kusukela ku 1- 7</p> <p>Gcizelela Iwati loluphatselene nalokunyenti nalokumbawwa</p> <p>Shaya tanda kanyenti Mani</p> <p>Shaya tanda sikhatsi lesincane. Thishela ushaya tanda aphindze ka- 2</p>	<p>Tifombe letimbili tetinyoni lebatatisebentiselia liculo lekubala “Tinyoni letimbili”</p>		Lilanga -1
	<p>Umnyakato</p> <p>Bafundzi:</p> <ul style="list-style-type: none"> - Biti bafundzi lababili bete phambili. Babale - Babala titulo timbili, ematafula, njil - Babona titfo temtimba letihamba ngatimbili njengemehlo, tindlebe, tandla, imilente, tinyawo, emadvo, nemahlombe njil. - Abente umsindyo wekushaya ngesitfo semtimba, sib bashaya tanda kabili, banyakatisa tinhloko kabili, bashaya kabili nelunyawo phasi nobe kuzuba kabili, njil - Baphakamisa iminwe le -2, tanda le-2, tinyawo -2 			

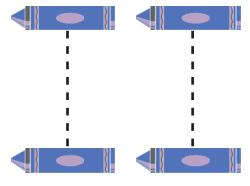
Liviki 11	Sikhatsi lesiphakanyisiwe sekufundzisa: Umsebenzi murye loheliwe loholwa nguthishela (tikhatsi tetifundvo) emaminihi ± 30 ngelilanga (Imisebenzi yetibalo ± 5 ngeliviki	Budze besikhatsi lesilinganisiwe
Sihloko	Emanotsi lacacisako	Tinsita letiphakanyisiwe
1.1 Bala tintfo	<p>Lokuphatsekako usebenitsa tintfo letingemadyimenshini lamatsaffu (3-D)</p> <p>Bafundzi:</p> <ul style="list-style-type: none"> - Battola tintfo letimbili letifanako ekillasini, sib. Ticatfulo letimbili, emakhilayoni lamabili, njii. - Battuffukisa Iwati lwekubekeka kwenombolo ngekuvumela bafundzi bapake tibali letimbili nobe letinye tintfo ngetindela lethlukene, sib.  <p>Tibali le -2 nobe tintfo letimbili umfundzi ngamunye</p> <ul style="list-style-type: none"> - Nangabe babala, linani letintfo alitsikanyetwa ngemasayizi ato, kubekeka nobe teluhobo luyu lolufanako. Sib. - Hieila tinkinobho le -2, emapeniseli la -2, emahhulahhubhu la -2, bafundzi la -2 njii - Wabale ngetindela lethlukene, sib. bala uwasabalalise, bala uwasondzete ndzawonye, wabale asemgceni nobe uwapake aya etulu 	Lilanga -1

Liviki 11	Sikhatsi lesiphakanyisiwe sekufundzisa: Umsebenti murye loheliwe loholwa nguthishela (tikhatsi tetifundvo) emaminithi ± 30 ngelilanga (Imisebenti yetibalo ± 5 ngeliviki)	Budze besikhatsi lesilinganisiwe												
Sihloko	<p style="text-align: center;">Emanotsi lacacisako</p> <ul style="list-style-type: none"> • Kwati tinombolo nekubona emagama etinombolo lafaka ekhatsi inombolo - 2 • Lokubonakalako ungeke ukuphatse usebentisa bobunjwa labangemada-yimenshini lamabili (2-D) nope titfombe <p>Bafundi:</p> <ul style="list-style-type: none"> - Kumatanisa emakhadi etitfombe lanetitfombe letimbili nemakhadi lamabili lanemacashati lamabili - Kukhombisa emafleshikhadi lanetitfombe letinelinanai letintfo letikhetsiwe, sib. ticatfulo letimbili, emakhilayoni lamabili, njil - Bafundi ababuke linani letintfo letikhakao ekilasini - Bafola emafleshikhadi lanetinombolo letehlukene tetitfombe - Bafola emafleshikhadi lanemagama etinombolo - 2 - Babona emafleshikhadi lanemagama etinombolo inombolo - 2 nelinanai letikhakao ekilasini - Bahumanisa inombolo -2 nelinanai letintfo kanye nelinanai lemacashati. - Bahumanisa ligama lenombolo nelikhadi leninombolo, linani letitfombe nelinanai lemakhadi lanemacashati. - Bangeta emafleshikhadi lanenombolo - 1 ucele bafundzi batfole inombolo lengu -1 na -2 - Bewenta emaphazili etinombolo nekucela bafundzi bawamatani 	<p style="text-align: center;">Tinsita letiphakanyisiwe</p> <p>Lilanga 1</p> <p>Tintfo letiseeklasini naletisendzaweni letsite</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td style="padding: 5px; text-align: center;">Siftombe</td> <td style="padding: 5px; text-align: center;">setintfo</td> <td style="padding: 5px; text-align: center;">letimbili</td> </tr> <tr> <td style="padding: 5px; text-align: center;">2</td> <td style="padding: 5px; text-align: center;">2</td> <td style="padding: 5px; text-align: center;">2</td> </tr> </table> <p>Emakhadigama lanetitfombe letimbili, emacashata, inombolo neligama lenombolo</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td style="padding: 5px; text-align: center;">Siftombe</td> <td style="padding: 5px; text-align: center;">setintfo</td> <td style="padding: 5px; text-align: center;">letimbili</td> </tr> <tr> <td style="padding: 5px; text-align: center;">2</td> <td style="padding: 5px; text-align: center;">2</td> <td style="padding: 5px; text-align: center;">2</td> </tr> </table> 	Siftombe	setintfo	letimbili	2	2	2	Siftombe	setintfo	letimbili	2	2	2
Siftombe	setintfo	letimbili												
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Siftombe	setintfo	letimbili												
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Liviki 11	Sikhatsi lesiphakanyisiwe sekufundzisa: Umsebenti munye loheliwe loholwa nguthishela (tikhatsi tetifundvo) emaminithi ± 30 ngelilanga (Imisebenti yetibalo ± 5 ngeliviki	Budze besikhatsi lesilinganisiwe
Sihloko	<p>Emanotsi lacacisako</p> <p>3.2 Tintfo letingemada-yimenshini lamatsattu (3-D)</p> <p>Umnyakato</p> <ul style="list-style-type: none"> - Chaza, hilunga ubuye ucatsanise tintfole tingemadayimenshini lamatsattu (3-D) nabobunjwa labangemada-yimenshini lamabili (2-D); ngekufana kwato nangekwenhluka kwato <p>Khetsa emantfombatane lamabili usebentise umlolotelo wekubala.</p> <ul style="list-style-type: none"> - Labanye bafundzi abasho kutsi lamantfombatane lamabili afana ngani? - Khetsa umfana nentfombatana usebentise umlolotelo wekubala - Labanye bafundzi abasho kutsi lomfana nentfombatane behlukue ngani? - Ngababili munye umfundzi “hangabe ngendlela letsite” bese lolomunye umfundzi uingisa “lendlela letsite yekuma” sib. - Umfundzi munye utawumuma ngelunyawo lunye atfwale tandla enhloko, lolomunye umfundzi utawulingisa lomngani. - Hilunga bafundzi ngekwebulii, labo labagcoke ticatfulo, labo labagcoke masandazi, nalabo labangakagcoki ticatfulo. - Bita labafundzi labalandzelako bete phambili <ul style="list-style-type: none"> o Bafana nemantfombatane labagcoke emabhlukwe, intfombatane legcoke liogo. o Bonkhe bantfwanwa labagcoke ticatfulo, nalabo labangakagcoki ticatfulo - Buta imibuto lefana nale: “Ngumuphi umfundzi longacatsaniseki nalabanye?” - “Ngumuphi umfundzi lohlukile?” 	<p>Tinsita letiphakanyisiwe</p> <p>Lilanga- 1</p>

Liviki 11	Sikhatsi lesiphakanyisiwe sekufundzisa: Umsebenzi murye loheliwe loholwa nguthishela (tikhatsi tetifundo) emaminihi ± 30 ngelilanga (Imisehenti yetibalo ± 5 ngeliviki																																													
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3.2 Tintfo letingemada-yimenshini lamatsattu (3-D)	<ul style="list-style-type: none"> Chaza, hlunga ubuye ucatsanise tintfole tingemadayimenshini lamatsattu (3-D) nabobunjwa labangemada-yimenshini lamabili (2-D); ngekufanana kwato nangekwenhluka kwato <p>Lokuphatsekako usebenitsa tintfo letingemadayimenshini lamatsattu (3-D)</p> <ul style="list-style-type: none"> Bafundzi lababili bashayisa emabholia phasi: ibhola lenkhulu nebhola lencane Bafundzi labanye batawusho kutsi emabholia ahluke ngani, afana ngani Umfundzi munye ugicita liwolintji, lomunye ugicita ibhola Bafundzi labanye batawusho kutsi ibhola nelwolintji kuhluke ngani, kufana ngani Bafundzi batawubukisia ticatfulo tebafana nemasandasi emanfombatana Bafundzi labanye batawusho kutsi ticatfulo thiiluke ngani, tifana ngani Bafundzi batawubukuba batfole tintfo letifanako ekasini <p>Lokubonakalako ungeke ukuphatse usebentisa bobunjwa labangemada-yimenshini lamabili (2-D) nobe tifombe</p> <ul style="list-style-type: none"> Nika emakhadi ekudlala lafanako kute utifutukise kufanana nemehluko, sib. 	<p>Tinsita letiphakanyisiwe</p>  <p>Yenta emakhadi emidhalo wekumatanisa njengalesiboneko lesingentasi</p> <p>Lilanga 1</p>																																												
3.3 Nabobunjwa labangemada-yimenshini lamabili (2-D) nangekuhluka kwato	<p>Lokubonakalako ungeke ukuphatse usebentisa bobunjwa labangemada-yimenshini lamabili (2-D) nobe tifombe</p> <ul style="list-style-type: none"> Nika emakhadi ekudlala lafanako kute utifutukise kufanana nemehluko, sib. <p>Batawuchubekela emakhadini lalukhuni ngekuhamba kwemnyaka. Bafundzi akukalindzeleki kutsi bafundze letinhlavu. Sib.</p> <table border="1"> <tr> <td>d</td><td>d</td><td>b</td><td>d</td> </tr> <tr> <td>e</td><td>e</td><td>e</td><td>e</td> </tr> <tr> <td>r</td><td>r</td><td>r</td><td>r</td> </tr> <tr> <td>s</td><td>s</td><td>s</td><td>s</td> </tr> </table> <table border="1"> <tr> <td>o</td><td>e</td><td>o</td><td>c</td><td>e</td><td>o</td><td>a</td> </tr> <tr> <td>o</td><td>d</td><td>d</td><td>p</td><td>a</td><td>d</td><td>d</td> </tr> <tr> <td>n</td><td>m</td><td>n</td><td>h</td><td>m</td><td>h</td><td>n</td> </tr> <tr> <td>sc</td><td>sc</td><td>sc</td><td>sc</td><td>sc</td><td>sc</td><td>sc</td> </tr> </table>	d	d	b	d	e	e	e	e	r	r	r	r	s	s	s	s	o	e	o	c	e	o	a	o	d	d	p	a	d	d	n	m	n	h	m	h	n	sc							
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Liviki 11	Sikhatsi lesiphakanyisiwe sekufundzisa: Umsebenti murye loheliwe loholwa nguthishela (tikhatsi tetifundvo) emaminiti ± 30 ngelilanga (Imisebenti yetibalo ± 5 ngeliviki	Budze besikhatsi lesilinganisiwe
Sihloko	Emanotsi lacacisako	Tinsita letiphakanyisiwe
1.4 Chaza, ucatsanise ubuye uhiele tinombole	<p>• Hlela ubuye ucatsanise tintso letigocwi usebentise "kulingana" nobe "kuyafana"</p> <p>Umnyakato</p> <p>Bafundzi:</p> <ul style="list-style-type: none"> - Battuffukisa Iwati lwekufana nekwehiuka - Bacatsanisa iminwe netintwane. Nanobe tinelinani lelfanako tibukeka tingafani. - Bacatsanisa iminwe, tintwane nemehlo. Kubukeka kungafani. Sinelinani lelfanako letingalo netintwane, loku-10 kodwua sinemehlo lamabili. - Bacatsanisa tindlebe, imikhono, imilente netinyawo. Kubukeka kungafani kodwva kunelinani lelfanako, lokungukutsi kuhamba ngakubili. - Thishela udwewba phasi tindilinga letimbili nobe wenta tindilinga letimbili phasi ngenitsambo. tjela bafundzi batihlikanise ngendlela yekutsi kube nelinani lellinganako endiliingen ngayinye. Bala linani lebatfundzi. Veta kutsi emacembu ayalingana futsi ayafana. 	Lilanga -1

Liviki 11	Sikhatsi lesiphakanyisiwe sekufundzisa: Umsebenti murye loheliwe loholwa nguthishela (tikhatsi tetifundvo) emaminithi ± 30 ngelilanga (Imisebenti yetibalo ± 5 ngeliviki	Budze besikhatsi lesilinganisiwe
Sihloko	<p>1.4 Chaza, ucatsanise ubuye uhiele tinombole</p> <p>Lokuphatsekako usebentisa tintfo letingemadayimenshini lamatsattfu (3-D)</p> <p>Emanotsi lacacisako</p> <ul style="list-style-type: none"> - Ifutufkisa Iwati Iwekufana nekwehluka - Beka isethi yetimpawu tebafundzi emkhatsini wekhaphethi. - Nika umfundzi ngamunye likhadi Iwelumphawu lakhe. Bafundzi bazama kumatanisa timphawu tabo naletu letisekhaphethini. - Beka inchumbi yetintfo etafuleni, utihlukanise tibe tinchumbi letilinganako (Kunye kwakho, kunye kwami) <p>Tibonelo:</p> <ol style="list-style-type: none"> 1. Beka tintfo letiuhlobo lunye, sib. Emakhayoni labekwe emgceri etafuleni. Cela umfundzi ngamunye amatanise likhlayoni lathishela ngalinye nelake. Bafundzi batawutsatsa emakhayoni lamabili bawamatantanise nelinani lemakhayoni athishela. "Nyalo sinelinani leifanako/ellilinganako lemakhayoni" 2. Phindza ukwente loku lokwente ngenha usebentise tintfo le- 4 nale- 6 kute bafundzi bavisiye "ngekufana" / nekulingana" 3. Thishela ubeka emabhuoloki lama- 2 emugceni losetafuleni. Unika bafundzi lababili ibhuloki ngamunye. Ucela umfundzi ngamunye amatanise ibhuloki yakhe neyathishela. (Umfundzi ngamunye utawulandza lenye ibhuloki atoyimatanisa nemabhuoloki lamabili athishea.) <p>"Nyalo sinemabhuoloki lamabili ngamunye. Sinelinani leifanako lemabhuloki"</p>  <p>Emanotsi lacacisako</p> <p>Lokubonakalako ungeke ukuphatse usebentisa bobunjwa labangemada-yimenshini lamabili (2-D) nobe tifombe</p> <ul style="list-style-type: none"> - Bafundzi bacatsanisa emafleshikhadi etifombe newemacashati. Tfola emakhadi lafanako. - Banike emakhadi emidalo yekumatanisa ngeskhati sekudlala bakhulekile ngeskhati endlini lapho bafundzi bangahlukanisa emkhatsini walokufanako nalokungafani.   <p>emabhuloki</p>	<p>Lilanga -1</p> 

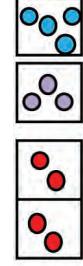
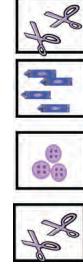
Liviki 11	Sikhatsi lesiphakanyisiwe sekufundzisa: Umsebenti murye loheliwe loholwa nguthishela (tikhatsi tetifundvo) emaminiti ± 30 ngelilanga (Imisebenti yetibalo ± 5 ngeliviki	Budze besikhatsi lesilinganisiwe
Sihloko	Emanotsi lacacisako	Tinsita letiphakanyisiwe
1.4 Chaza, ucatsanise ubuye uholele tinombole	<p>Hlela ubuye ucatsanise tintfo letigcogiwe usebentisa "lokunyenti kuna"</p> <p>Temlomo: Kubala tintfo letisefentiswa malanga onkhe ufile ku- 2 Gcizelela lwati loluphatsetene "nalokumbalwa"</p> <p>Shaya tandla kanyenti Mani</p> <p>Shaya tandla sikhatsi lesincane. Thishela ushaya tandla aphindze ka -2</p> <p>Umyakato</p> <p>Bafundzi batawusho kutsi ngutiphi taletintfo letimibili letiniketiwe "letinyenti kuna"</p> <p>Bafundzi:</p> <ul style="list-style-type: none"> - Babala emehlo abo neminwe yabo. Babute imibuto. Ngukuphi lokunyenti kunalokunye? - Bakhomba iminiwe lemibili esandleni siney nemuno munye kulesinye sandla. - Ngusiphi sandia lesineminiwe leminyenti? - Bakhetsa bafundzi la-3 basebentisa umiolotelo wekubala. Bahlele babe licembu lebafundzi lababili nelamunye     <p>- Babala kutsi bangaki bafundzi ecenjini ngalinye. bacatsanisa lamacembu lamabili abuye babuta imibuto lefana nale: "Nguliphi licembu lelinebefundzi labanyenti?" "Nguliphi licembu lelingetulu kwakunye?"</p>	Lilanga -1

Liviki 11	Sikhatsi lesiphakanyisiwe sekufundzisa: Umsebenti murye loheliwe loholwa nguthishela (tikhatsi tetifundvo) emaminithi ± 30 ngelilanga (Imisebenti yetibalo ± 5 ngeliviki	Budze besikhatsi lesilinganisive
Sihloko	Emanotsi lacacisako	Tinsita letiphakanyisiwe
1.4 Chaza, ucatsanise ubuye uhiele tinombole	<p>Lokuphatsekako ngekusebentisa tintfo leti-3</p> <p>- Beka tikeloo letihamba ngatimbili, tibali le -3 nemakhilayoni langu 4 etafuleni. Bala tintfo telicembu ngalinye.</p>  <p>Buta imibuto lefana nale: "nguwaphi emacembu lanetintfo letinyenti"? "Nguliphi licembu lelinetintfo letinyenti kakhulu tikeloo?" "Nguliphi licembu lelinalokungetulu kwendlua lokutsattu?",</p> <ul style="list-style-type: none"> - Beka tintfo letihlukene letiphatsekako etafuleni (emagobolondvo aselwandle, ematje, emakhokho ekuvaha emabhodlela) Tihlungue ngemacembu (emakhokho onkhe ndzawonye), ababale limani letintfo ecenjini ngalinye, basho kutsi nguliphi licembu lelinalokunenti, lokuncane, lokulunganako. Banikete littuba lekusebenta ngetibali tabo. Cala ngetinombolo letincane. - Kuhlangana: Tintfo tekuphatsa lokutsite kumele batitfole bafundzi ingesikhatsi sekudlala ngemanti nesanti kute batitfole littuba lekutitfolela iwayi loluphatselene natoku: "kunyenti kuna", "kuncane kuna", "kulingana" <p>Lokubonakalako ungeke ukuphatse usebentisa bobunjiwa labangemada-yimenshini lamabili (2-D) nobe titfombe</p> <ul style="list-style-type: none"> - Bafundzi abacatsanise titfombe nemakhadi lanemacashata. Kubona emakhadi lanetimbolo letingetulu kunaleto lebatniketwe nguthishela, sib. - Thishela utawutsi: ffola likhadi lelinetittfombe temacashati letingetulu Kwa- 2? Matanisa emakhadi lanelinanai letintfo letifanako nobe tibali. (Paka tibali kulelicashati ngalinye nobe sitfombe) 	<p>Nobe ngutiphi tintfo letisekilasini</p> <p>Titsita letiphakanyisiwe</p> <p>Budze besikhatsi lesilinganisive</p>

Liviki 12	Sikhatsi lesiphakanyisiwe sekufundzisa Umsebentii munye lohlelivie loholwa nguthishela (tikhatsti tetifundvo) emaminithi ± 30 ngelilanga (Imisebenti yetibalo ± 5 ngeliviki)	Budze besikhatsi lesilinganisiwe
Sihloko	Emanotsi lacacisako	Tinsita letiphakanyisiwe
1.1 Bala tintfo	<p>Bona ubuye utfo timphawu nemagama etinombolo lataka ekhatsi inombolo -2</p> <p>Temlomo: Kubala tintfo letisetjentiswa malanga onkhe urike ku- 2 Bala uye phambili nasemuva urike ku- 2 Bala ngenhloko kusukela ku 1- 7</p> <p>Gcizelela Iwati loluphatselene nalokunyenti nalokumbalwa Shaya tandla karyenti.....Mani Shaya tandla sikhatsi lesincane.Thishela ushaya tandla aphindze ka -2</p> <p>Umnyakato</p> <p>Bafundzi:</p> <ul style="list-style-type: none"> - Bashaya ibhola kanye, ngalamanye emagama phindza kanye. - Bashaya ibhola kabilii, ngalamanye emgama phindza kabilii - Badyweba inombolo - 2 phasi emhlabatsini abuye aceila bafundzi bahambe etulu kwalienombolo - Badyweba inombolo- 2 esantini, emoyeni, ekhaphethini, njll. - Bakha inombolo - 2 ngenhlama yekudlala - Tfola bangani la -2 labegcoke ticattulo <p>Lokuphatsekako usebentise tintfo letingemadayimenshini lamatsatfu (3-D)</p> <p>Bafundzi:</p> <ul style="list-style-type: none"> - Phakamisa sibali sinye - Phakamisa tibali letimbili 	<p>Emaculo nemiolotelo yetinombolo</p> <p>Emabhola Inhlama yekudlala</p> <p>Tibali</p>

Liviki 12	Sikhatsi lesiphakanyisiwe sekufundzisa Umsebenti munye lohleliwe loholwa nguthishela (tikhatxi tetifundo) emaminithi ± 30 ngellanga (Imisebenti yetibalo ± 5 ngeliviki)		
Sihloko	Emanotsi lacacisako	Tinsita letiphakanyisiwe	Budze besikhatsi lesilinganisiwe
1.1 Bala tintfo	<p>Lokubonakalako ungeke ukuphatse usebentisa bobunjwa labangemada-yimershini lamabili (2-D) nobe titfombe</p> <p>Bafundzi:</p> <ul style="list-style-type: none"> - Babona emafleshikhadi lanetitfombe bawachumanise relinanai lelifanako letintfo. - Babona emafleshikhadi lanemacashati lamabili bawachumanise relinanai lelifanako letintfo. - Babona emafleshikhadi etimphawu nemagama etinombolo bawacumaniise relinanai lelifanako letibali - Babona inombolo- 2 etitfombeni lebatinikwe nguthishela - Ungayibona kuphi eklasini inombolo lengu 2 - Hlukanisa likasi ngemacembu. Nikka bafundzi littuba lekudlala umdialo wetinombolo tedominos ngemacembu. 	<p>Siftombe setintfo leti - 2</p> <p>2</p> <p>kubili</p> <p>Tibali</p> <p>Titfombe letinenombolo - 2</p>	<p>- Lilanga 1</p> <p>Emakhaci lanetitfombe letimbili, emachashata, timphawu nemagama etinombolo</p>

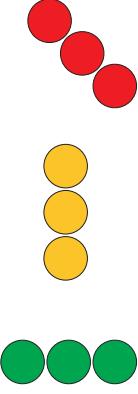
Liviki 12	Sikhatsi lesiphakanyisiwe sekufundzisa Umsebentti munye lohlelivie loholwa nguthishela (tikhatsti tetifundvo) emaminithi ± 30 ngelilanga (Imisebenti yetibalo ± 5 ngeliviki)	Emanotsi lacacisako	Tinsita letiphakanyisiwe	Budze besikhatsi lesilinganisiwe
1.7 Kuhlanganisa nekususa	<ul style="list-style-type: none"> Sombulula ngemlomo ubuye uchaze tisombululo tetinklinga tetibalo temagama (tibalo tetindzaba) letifaka ekhatsi inombolo-2 <p>Umnyakato</p> <p>Sibonelo:</p> <ol style="list-style-type: none"> 1. Thishela ubita 1 umfundzi aye phambili. Bafundzi bayabala. Thishela ubita lomunye 1 umfundzi: bangaki bafundzi sebabonkhe? 1 na 1 → 2. (thishela utawutsi: 1 na 1 kulingana na 2) 2. Thishela ubeka 1 situlo. Ngeta 1 lesinye. Tingaki titulo nyalo? 1 na 1 → 2. 3. Thishela uphakamisa iminwe lembili. Abuye atsi: "Balani iminwe yami". Nangabe niglihla umuno munye, mingaki iminwe loyibonako? 2 ngisusa 1 → 1. 4. Thishela uphakamisa iminwe lembili. Abuye atsi: "Balani iminwe yami. Nangabe ngingasusi nobe nguwuphi umuno, mingaki iminwe loyibonako? 2 ngisusa 0 → 2. 5. Kunemntfwanra munye ekhaya. Munye umntfwanra uyafika utodila. Bangaki bantfwanra labakhona nyalo? 6. Kunebanftwanra lababili etafuleni. Umntfwanra ngamunye ufuna situlo sakhe. Sindzinga titulo jetingaki? <p>Lokuphatsekako usebentise tintfo letingemadayimenshini lamatsatfu (3-D)</p> <p>Tibonelo: (Sebentisa tibali)</p> <ol style="list-style-type: none"> 1. Nangabe unelukukisi i linye, make akunike lelinye, utawuba nemakukisi mangaki? 2. Thishela unetibali letimbili esandleni sinye kulesinye sandla akanato tibali. Umetibali tingaki setitorikhe? 3. Cayisa unemabhola lamabili, ibhola yinye yalahleka. Usele nemabhola lamangaki Cayisa? 4. Nangabe unemabhuloki- 2, unlike umngani ibhuloki 1, nitawuba nemabhuloki lamangaki ngamunye? 	<p>Emaculo nemilololelo yetinombolo</p> <p>Tibali (nangabe ungenawo emakukisi)</p>	<p>Lilanga 1</p>	

Liviki 12	Sikhatsi lesiphakanyisiwe sekufundzisa Umsebenti munye loheliwi loholwa nguthishela (tikhatsi tetifundvo) emaminiti ± 30 ngelilanga (Imisebenti yetibalo ± 5 ngeliviki)		
Sihoko	Emanotsi lacacisako	Tinsita letiphakanyisiwe	Budze besikhatsi lesilinganisiwe
1.4 Chaza, ucatsanise ubuye uholele tinombolo	<ul style="list-style-type: none"> Hieia ubuye ucatsanise tintfo letigcogiwe usebentisa "lokuncane kuna" <p>Temlomo: Kubala tintfo letisetjeteniswa malanga onkhe ufike ku-2 Gcizelela Iwati loluphatseleno nalokunyenti nalokumbalwa Shaya tandla kamyenti.....Mani Shaya tandla sikhatsi lesincane. Thishela ushaya tandla aphindze- 2</p> <p>Umnyakato (kuhlangana nebulciko bekwenta kuMakhono Ekuphila- umdanso) <ul style="list-style-type: none"> Cula leliculo: 'inhloko emahlombe, madyolo netintwane' kwekucala cula onkhe emagama Kwesibili cula ushiye ligama linye, sib. Inhloko emahlombe, emadvolo ne.....,, emadvolo ne.....,, Cula ushiye lamanye emagama, sib. Inhloko,emahlombe ..ne.....,.....ne Thishela utawusho kutsi batawucula bahhafulu emagama aze apheli onkhe. Lokuphatsekako usebentise tintfo letingemadayimenshini lamatsatfu (3-D) Thishela wenta tintsambo tebuhhalu letine Beka buhhalu bu-3 entsanjeni yekucala, buhhalu bu- 2 entsanjeni yesibili, bune buhhalu entsanjeni yesitsatfu na -3 buhhalu entsanjeni yesine. Bafundzi abafola kutsi: <ul style="list-style-type: none"> Ngyiphi intsambo lenebuhhalu lobuncane? Ngyiphi intsambo yebuhhalu lenyenti nga -1 kunalentsambo lenebuhhalu -2? Ngyiphi intsambo yebuhhalu lenalokuncane ngakunye kunalentsambo lenebuhhalu lo-3? </p> <p>Lokubonakalako ungeke ukphatse usebentisa bobunjiva labangemada-yimenshini lamabili (2-D) nobe tifombe <ul style="list-style-type: none"> Bafundzi abacatsanise tifombe nemakhadi lanemacashati. Kubona emakhadi lanetintfo letinyenti kunaletinye, letincane kumalenombolo lenketwe nguthishela, sib. Nguliphi likhadi leinalokunyenti kuna-2? Nguliphi likhadi leinalokuncane kuna -4? </p>	Lilanga 1 Emaculo nemilolotelotelo yetinombolo Licul: "Inhloko nemahlombe, emadvolo netintwane" Tintsambo letine letinelinan ielehlukene lebuhhalu. Tintsa letiphakanyisiwe labangemada-yimenshini lamabili (2-D) nobe tifombe Kutakhela sitfombe sakho nemasethi emakhadi lanemacashati	
			 

Liviki 12	Sikhatsi lesipha kanyisiwe sekufundzisa Umsebenti mune loheliive loholwa nguthishela (tikhatsti tetifundvo) emaminithi ± 30 ngelilanga (Imisebenti yetibalo ± 5 ngeliviki)		Budze besikhatsi lesilinganisiwe
Sihloko	<p>1.4</p> <p>Chaza, ucatsanise ubuye uhlele tinombolo</p> <ul style="list-style-type: none"> • Gcizelela kucatsanisa kwetintfo letimbili letigcogiwe letiniketiwe usebentisa: <ul style="list-style-type: none"> - lettintyenti kuna - letincane kuna (lokuncane kakhlulu) Temlomo: Kubala tintfo letisetjentiswa malanga onkhe urike ku- 2 Bala ngenhloko kusukela ku 1- 7 <p>Gcizelela iwati loluphatselene nalokunyenti nalokumbalwa</p> <p>Shaya tandla karyentti.....Mani</p> <p>Shaya tandla sikhatsi lesincane. Thishela ushaya tandla aphindze ka- 2</p> <p>Thishela wenta tintsambo letimbili tebuhluu. Beka buhluu lo 3 entsanjeni yekucala, buhluu lo 2 entsanjeni yesibili</p> <p>Bafundzi abatfolia kutsi:</p> <ul style="list-style-type: none"> - Nguyiphi intsambo yebuhluu lenebuhluu lobuncane? - Nguyiphi intsambo yebuhluu lenebuhluu lobunyentii? - Nguyiphi intsambo yebuhluu lenebuhluu lobunyentii nga- 2? - Nguyiphi intsambo yebuhluu lencane ngebuhluu lo- 3? <p>Kuhlangana ngebuciko bekubona intfo uyakhe lapho bafundzi batfunga emasitrozi, bajuba bobunjwa labanesikhala emkhatsini, emacembe njil</p> <p>Lokubonakalako ungeke ukuphatse usebentisa bobunjiwa labangemada-yimenshini lamabili (2-D) nobe titfombe</p> <p>Beka incumbi yetintfo etafuleni Abuye uyihukanise ngalendleia:</p> <ul style="list-style-type: none"> - Tinchumbi letilinganako (lena yakno, lena yami) - Tinchumbi letingalingani (catsanisa, ubuke kutsi nguyiphi inchumbi lenyenti, lencane nalefanako) - Nangabe kumetinchumbi letimbili letingafani, kumele senteni kute tilingane? 	<p>Emanotsi lacacisako</p> <p>Tinsita letiphakanyisiwe</p>	Lilanga 1

Liviki 12	Sikhatsi lesiphakanyisiwe sekufundzisa Umsebentii munye loheliive loholwa nguthishela (tikhatsti tetifundvo) emaminithi ± 30 ngelilanga (Imisebenti yetibalo ± 5 ngeliviki)	Budze besikhatsi lesilinganisiwe
Sihloko	Emanotsi lacacisako	Tinsita letiphakanyisiwe
3.2 Tintfo letingemada-yimenshini lamatsatfu (3-D)	<ul style="list-style-type: none"> Chaza, hlunga ubuye ucatsanise tintfo letingemadayimenshini lamatsatfu (3-D) Lokuphatsekako usebentise tintfo letingemadayimenshini lamatsatfu (3-D) <p>Bafundzi:</p> <ul style="list-style-type: none"> Bahlunga tinhlobo letehlukene tetintfo ngekwemasayizi Bahlunga bacatsanise emabhuholi ekwakha lahlukene ngekwemasayizi (lokukhulu nalokuncane) Bahlunga emabhuholi rigabobunjiya labafanako Lokubonakalako ungeke ukuphatse usebentisa bobunjiwa labangemada-yimenshini lamabilii (2-D) nobe titfombe <p>Hlukanisa bafundzi ngemacembu lasihlanu. Niku licembu ngalinye tinhlobo letihlukene tabobunjiwa.</p> <ul style="list-style-type: none"> Bafundzi abahlunge bobunjiwa ngekwe: <ul style="list-style-type: none"> o mbala o ngabobunjiwa (nanobe bafundzi bangabati bobunjiwa) o Sayizi Sebentisa imidalo yemakhadi letawutuftukisa umbala, isayizi nabobunjiwa 	Lilanga 1
3.3 Nabobunjiwa labangemada-yimenshini lamabilii (2-D) nangekuhluka kwato	<p>Tinhlobo letihlukene tetintfo letihlukulu naletincane letisekasinii, sib.ibholia, umdoli, imoto yekudlala, ibhuloki yelego, njil</p> <p>Emabhuholi ekwakha nemabholia emasayizi lahlukene</p> <p>Bobunjiwa belogi nobe bobunjiwa bemibalabala labatfolakalako</p>	

Liviki 13 Sikhatsi lesiphakanyisiwe sekufundzisa: Umsebentii munye welikiasi loheliwe loholwa nguThishela (tikhatsi tetifundvo) ± 30 emaminithi ngelilanga (± 5 Imisebenti yetibalo ngeliviki)			
Sihloko	Emanotsi lacacisako	Tinsita letiphakanyisiwe	Budze besikhatsi lesilinganisiwe
1.1 Bala tintfo Chaza ubone tinombolo letiphelele	<ul style="list-style-type: none"> Ngenisa lokushiwo yinombolo ku-3 Temlomo: Bala tintfo letisetjentiswa malanga onkhe urike ku -3 Bala uye phambili nasemuva urike ku -3 Bala ngenhioko kusukela ku 1- 7 <p>Gcizelela lwati loluphatseenene nalokunyenti nalokumbawwa</p> <p>Shaya tandla kanyenti.....Mari.</p> <p>Shaya tandla sikhatsi lesincane.Thishela ushaya tandla aphindze ka -3</p> <p>Umnyakato</p> <ul style="list-style-type: none"> - Thishela udala tigubhu nobe umculo. Ngalesikhatsi umculo uphela, bafundzi bakha emacembu lahamba ngebufundzi labatsatfu - Buta bafundzi kutsi ngubani lonemndeni lonemalunga lamatsatfu - Bafundzi bema emgcen; “Thishela uyabuta, ngubani wesitsatfu kulumugca?” <p>Hluukanisa bafundzi ngemacembu langu ±5</p> <p>Bafundzi:</p> <ul style="list-style-type: none"> - Badzabula emakhasi lamatsatfu ebhukwini lelidzala letinombolo telicingo - Bashwabanisa emaphephha lamatsatfu, bente emabholaa lamatsatfu lacinile. Kute kubelula kutfola umkhansi, sebentisa sandia lesisebenta kakhulu. Umfundzi angahala ngasesandleni lesingasebenti kakhulu - Bavula lamabholaa bawashwabanise futsi - Ngesikhatsi ubala phosa lamabholaa omatsatfu emanijini lebekwe emkhatsini welicembu <p>Lomsebenti ungawuhlanganisa nesifundvo sekutivocavoca kuMakhono Ekuphila.</p>	<p>Emaculo nemiolotelo yetinombolo</p>	Lilanga 1

Liviki 13	Sikhatsi lesiphakanyisiwe sekufundzisa: Umsebenzi munye welikiasi loheliwe lohola nguThishela (tikhatsi tetifundvo) ± 30 emaminithi ngelilanga (± 5 imisebenzi yetibalo ngeliviki)	Emanotsi lacacisako	Tinsita letiphakanyisiwe	Budze besikhatsi lesilinganisiwe
Sihloko	1.1 Bala tintfo Chaza ubone tinombolo letiphele	Lokuphatsekako usebenzisa tintfo letingemadayimenshini lamatsattu (3-D) Bafundzi: <ul style="list-style-type: none">- Babona tintfo le- 3 eklassini.- Baphakamisa iminwe le -3- Babeka tintfo le -3 etafuleni. Umfundzi ngamunye uta etafuleni abale intfo ngayinye. Umfundzi utsintsa intfo ngayinye ngalesikhatsi abala. Abakuphindze loku kuletinye tintfo.- Kuttuffukisa Iwati Iwekubebekaka kwetinombolo ngekuvumela bafundzi bapake tibali letintsattu nobe ngabe rigitphi tintfo ngetindela letehlukene, sib. 	Tibali nobe tintfo	Lilanga 1
		 Ngalesikhatsi ubala, linani letinombolo alitsikanyetwa isayizi, nobe indzawo, nobe ngabe teluhlobo lunye lolurankao, siboneko: <ul style="list-style-type: none">- Hiela tinkhinothro le- 3, emapenisi la -3, emahhulahhubhu la -3, ebafundzi la -3 njii.- Bala ngeluhlelo lolwehlukile, sib. Wabale uwasabalise, wabale asondzelene, wabale asemgenci nobe uwapakile.	Lokubonakalako ungeke ukuphatse usebentisa bobunjwa labangemada-yimenshini lamabili (2-D) nobe titfombe <ul style="list-style-type: none">- Khombisa sitfombe "selihodo lensimbi lelinetinyawo letintsattu"- Bala tinyawo telihodo- Bafundzi abacabange nanobe yini lenetinyawo letintsattu.- Khombisa emakhadititfombe lanetintfo le -3. Bafundzi babala linani letibali lelhambelana netifombe- Baphindze benté loko ngemakhadi emacashati- Bafundzi bamatanisa emakhadi emacashati nemakhadi etitfombe	Titfombe temakhadigama Emafleshikhadi emacashati Tibali Sitfombe setintfo le- 3 

Liviki 13	Sikhatsi lesiphakanyisiwe sekufundzisa: Umsebenzi mune welikiasi loheliwe loholwa nguThishela (tikhatsi tetifundvo) ± 30 emaminithi ngelilanga (± 5 Imisebenzi yetibalo ngeliviki)	Emanotsi lacacisako	Tinsita letiphakanyisiwe	Budze besikhatsi lesilinganisiwe											
1.3 Timphawu nemagama etinombolo	<p>Kwati tinombolo nekubona emagama etinombolo lafaka ekhatsi inombolo - 3</p> <p>Temlomo: Kubala tintfo letisetjentiswa malanga onkhe urike ku -3 Bala uye phambili nasemuva urike ku -3 Bala ngenhioko kusukela ku 1 - 7</p> <p>Gcizelela lwati loluphatseene nalokunyenti nalokumbalwa</p> <p>Shaya tandla kanyenti.....Mari</p> <p>Shaya tandla sikhatsi lesincane.Thishela ushaya tandla aphindze ka -3</p> <p>Lokuphatsekako usebentisa tintfo lettingemadymenshini lamatsattfu (3-D)</p> <ul style="list-style-type: none"> - Niketa umfundzi ngamunye emakhiyubhu eyunifikasi - Thishela ukhombisa licashata, sifrombe, likhadi lelineligama lenombolo lelfaka ekhatsi tinombolo -1 kuya ku -3 - Bafundzi babala inombolo lebanikwe yona babeke inombolo lefanako yemakhiyubhu eyunifikasi eminweri yabo. <p>Lokubonakalako ungeke ukuphatse usebentisa bobunjwa labangemada-yimenshini lamabili (2-D) nobe titfombe</p> <p>Bafundzi:</p> <ul style="list-style-type: none"> - Babona emafleshikhadi lanelinani lelhukene letitfombe - Babona emafleshikhadi lanombolo -3 - Bachumanisa inombolo lengu -3 nelinanai letitfuo kanye nelinanai lemacashata - Bachumanisa ligama lenombolo nenombolo lesekhadini - Niketa umfundzi ngamunye likhadinombolo lelfaka ekhatsi tinombolo -1 kuye ku -3. Thishela uphakamisa likhadi lemacashati nobe letitfombe. Bafundzi baphakamisa likhadi lelihambelana nelikhadinombolo. 	<p>Emakhiyubhi eyunifikasi</p> <p>Likhadinombolo lelfaka ekhatsi tinombolo 1 kuye ku -3</p> <table border="1"> <tr> <td>Sifrombe</td> <td>setintfo</td> <td>le- 3</td> </tr> <tr> <td></td> <td>3</td> <td>Kutsattfu</td> </tr> </table>	Sifrombe	setintfo	le- 3		3	Kutsattfu	<p>Lilanga -1</p> <table border="1"> <tr> <td>Sifrombe</td> <td>setintfo</td> <td>le- 3</td> </tr> <tr> <td></td> <td>3</td> <td>Kutsattfu</td> </tr> </table>	Sifrombe	setintfo	le- 3		3	Kutsattfu
Sifrombe	setintfo	le- 3													
	3	Kutsattfu													
Sifrombe	setintfo	le- 3													
	3	Kutsattfu													

Liviki 13	Sikhatsi lesiphakanyisiwe sekufundzisa: Umsebenzi munye welikiasi loheliwe lohola nguThishela (tikhatsi tetifundvo) ± 30 emaminithi ngelilanga (± 5 Imisebenzi yetibalo ngeliviki)	Emanotsi lacacisako	Tinsita letiphakanyisiwe	Budze besikhatsi lesilinganisiwe
Sihloko	<p>1.7 Kuhlanganisa nekususa</p> <ul style="list-style-type: none"> Sombulua inklinga yekuhlanganisa a nekususa lekhulunyiwe lenesisombululo lesifika ku -3 <p>Temlomo: Kubala tintfo letisetjentiswa malanga onkhe urike ku- 3.</p> <p>Bala uye phambili nasemuva urike ku- 3.</p> <p>Umnyakato</p> <p>Sibonelo:</p> <ol style="list-style-type: none"> Thishela ubita bafundzi lababili bete phambili. Bafundzi bababale. Thishela ubita lomunye umfundzi mu -1 ubuye ubute: "bangaki bafundzi nasebapelele?" 2 na 1 → 3. (Thishela utsi: 2 na 1 kwenta 3) Thishela upaka titulo le 3. Akamange atengete ngaeltinye. Kunatingaki titulo nyalo? 3 ne 0 → 3. Thishela ubita bafundzi labatsatfu bete phambili. Ababale, uncandza ba- 2 bafundzi. Bangaki bafundzi labasele? 3 ususe 2 → 1 <p>Lokuphatsekako usebenitsa tintfo letingemadimenshini lamatsatfu (3-D)</p> <p>Niketa umfundzi ngamunye tibali le -3. Ngesikhatsi thishela "acoca indzaba" bafundzi bapaka tibali.</p> <p>Tibonelo:</p> <ol style="list-style-type: none"> Anne unemawolintji la- 2 na Pele wamnika lelinye -1. Unamangaki emawolintji ususe -2 → 1. Kuneligala -1 esihlahleni nemagala- 2 lasahluma. Sinemagala lamangaki lesihlahla nyalo? -1 na -2 → 3. <p>Tibonelo:</p> <ol style="list-style-type: none"> Ingobiyane inemabhanana la- 3 yase idla -1. Isele namangaki emabhanana? -3 ususe -2 → 1. Kunemahhabhula la -2 lamnandzi esihlahleni semhhabhula. Lihhabhula -1 lawa. kusele mangaki emahhabhula esihlahleni? 2 ususe -1 kulingana → 1. 	<p>• Sombulua inklinga yekuhlanganisa a nekususa lekhulunyiwe lenesisombululo</p> <p>Emaculo nemilolotelo yetinombolo.</p>	<p>Lilanga -1</p>	

Liviki 13	Sikhatsi lesiphakanyisiwe sekufundzisa: Umsebenzi munye welikasi loheliwe loholwa nguThishela (tikhatsi tetifundvo) ± 30 emaminithi ngelilanga (± 5 Imisebenzi yetibalo ngeliviki)		
Sihloko	Emanotsi lacacisako	Tinsita letiphakanyisiwe	Budze besikhatsi lesilinganisiwe
2.1 Emaphethini e-Jomethri	<p>Umnyakato</p> <p>Bafundzi bahlala bakhe indilinga. Bacula emagama lahambelana nesigci sibonelo:</p> <p><i>libalele, sibhakabhabka, lilianga, sibhakabhabka</i></p> <p><i>Bhavana, lihabhula, pere, bhavana, lihabhula, pere.</i></p> <p><i>Nomsa, Jona, Abela, Susu, Jobe, Amosi</i></p> <p><i>kubovu, kuluhiata njengesibhakabhabka, kubovu, kuluhiata njengesibhakabhabka,</i></p> <p><i>njengesibhakabhabka nji.</i></p> <p><i>Waka, waka, eh, eh, waka, waka, eh, eh</i></p> <p>Lokuphatsekako usebenitsisa tintfo lettingemadayimenshini lamatsatfu (3-D)</p> <p>bafundzi:</p> <ul style="list-style-type: none"> - Bagcogca tintfo le -3 letifanako eklasini sib. emakhilayoni -3 - Bagcogca letinye tintfo le-3 letifanako eklasini sib. Emabhuholki elego la-3 - Bafundzi batakheba emaphethini basebentisa tintfo letimbili sib. - Likhilayoni liryie, ibhuloki yeLego yinye, likhilayoni linye..... - Emakhilayoni lamabili, libhuloki leLego yinye, Emakhilayoni lamabili, libhuloki leLego yinye - Batentela emaphethini ngendleta lehlukile. - Bantintjana ngetintfo nemngani babuye bakuphindze futsi loko. 	Lilanga- 1	

Liviki 13	Sikhatsi lesiphakanyisiwe sekufundzisa: Umsebenzi munye welikasi loheliwe loholwa nguThishela (tikhatsi tetifundvo) ± 30 emaminithi ngelilanga (± 5 Imisebenzi yetibalo ngeliviki)		
Sihloko	Emanotsi lacacisako	Tinsita letiphakanyisiwe	Budze besikhatsi lesilinganisiwe
3.3 Bobunjwa labangemada-yimenshini lamabili (2-D)	<p>Bona, utfole ubuye unikete bobunjwa labangemada-yimenshini lamabili (2-D) eka-sini lokufaka eknatsi tifombe</p> <ul style="list-style-type: none"> - Calantsattfu • Gcizellela lwati lolutfole evikini 4 kute ubone, utfole ubuye unike lacalantsattfu Umnyakato <p>Dwewba, nobe usebentise intsambo kute utakhele sakhwi sabunjiwa wacalantsattfu lom-khulu.</p> <p>Bafundzi:</p> <ul style="list-style-type: none"> - Bahamba batungelete lobuniwa babuke kwakheka kwacalantsattfu. Basahamba bafundzi abatsi: "ngiharba eceleni kwacalantsattfu. Linye,mabili, lamatsattfu nobe linye licala, mabili, lamatsattfu emakhone - Baveta kutsi calantsattfu "unemakhona" la- 3 nemacala lamatsattfu. - Badwweba calantsattfu emoyeni/emhabatsini - Bakha calantsattfu ngelubumba <p>Lokuphatsekako usebentisa tintfo letingemadayimenshini lamatsattfu (3-D)</p> <p>Bafundzi:</p> <ul style="list-style-type: none"> - Babona babuye batfole tintfo letinesakhwi sabunjiwa longucalantsattfu eklassini. - Babona babuye batfole tintfo letinesakhwi sabunjiwa longucalantsattfu kutenvelo. - Babeka tinhlobonhlobo letehlukene tetidilinga nabocalantsattfu "esikhwameni sefili". Tfola calantsattfu kulabanye bobunjwa. 	<p>Lilanga -1</p> <p>Lubumba nobe inhlama yekudlala</p> <p>Tintfo letibocalantsattfu eklassini nakutendzawo</p> <p>Takhele emakhadi lanetindiliinga, bocalantsattfu netikwele le -5 letehlukene.</p>	<p>Hlunga tintfo letingemadayimenshini lamatsattfu (3-D) nabobunjwa labangemada-yimenshini lamabili (2-D)</p> <ul style="list-style-type: none"> - Hlunga tinhlobonhlobo tetintfo ngekubumbeka nangembala.

Liviki 13	Sikhatsi lesiphakanyisiwe sekufundzisa: Umsebentii munye welikiasi loheliwe loholwa nguThishela (tikhatsi tetifundvo) ± 30 emaminithi ngelilanga (± 5 imisebenti yetibalo ngeliv[i])	Budze besikhatsi lesilinganisiwe
Sihloko	Emanotsi lacacisako	Tinsita letiphakanyisiwe
3.3 Bobunjwa labangemada- yimenshini lamabili (2-D)	<p>Lokubonakalako ungeke ukuphatse usebentisa bobunjwa labangemada-yimenshini lamabili (2-D) nobe tiffombe</p> <p>Bafundzi:</p> <ul style="list-style-type: none"> - Battfolia bunjwa longucalantsattu etifombeni. - Badwweba calantsattu ephepheni. - Batsatsela calantsattu losekhadini lebaniketve lona. - Badwweba indilinga itungelete tonkhe tindilinga letisephpheni lekusebentela. - Benta tiffombe basebentise bocalantsattu ngesikhatsi sebuciko bekubona nekwenta. - Badlala imidhalo yemakhadi leyelekelela kugcizelela bobunjwa. 	<p>Lilanga -1</p> <p>Tiffombe lokungatffolwa kuto calantsatfu.</p> <p>Imidhalo yemakhadi letfutfukissa kubona bobunjwa hje nga "kunani esikweleni" Bobunjwa belogi njil.</p>

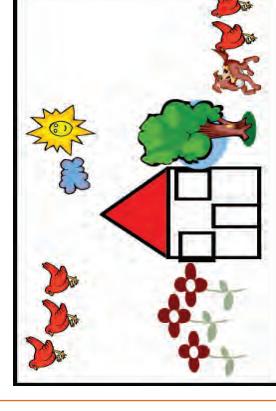
Liviki 14	Sikhatsi lesiphakanyisiwe sekufundzisa: Umsebenti munye weliklasi lohleliwe loholwa nguThishela (tikhatsi tetifundo) ± 30 emaminithi ngellanga (± 5 imisebenti yetibalo ngeliviki)		
Sihloko	Emanotsi lacacisako	Tinsita letiphakanyisiwe	Budze besikhatsi lesilinganisiwe
1.1 Bala tintfo	<ul style="list-style-type: none"> Gcizelela Iwati lolutfoliwe lolufaka ngekhatsi inombolo 3 Temilomo: Bala tintfo letisetjentiswa malanga onkhe urike ku- 3. Bala uye phambili nasemuva urike ku -3 Bala ngenhioko kusukela ku-1- 7 Gcizelela Iwati loluphatselene “nalomkunyenti nalokumbalwa” Shaya tandla kanyenti.....MANI! Shaya tandla silkhatsi lesincane. Thishela ushaya tandla aphindze ka -3 <p>Lokuphatsekako usebentisa tintfo letingemadayimenshini lamatstafu (3-D)</p> <p>Bafundzi:</p> <ul style="list-style-type: none"> - Batfola tintfo le -3 eklassini letibovu. - Benta inombolo- 3 ngelubumba. - Bagicita emabholia la -3 lamakhulu ngelubumba. - Bagicita emabholia la -3 lamancane ngelubumba - Batfola bafundzi la -3 labagcoke umbala lofanako eklassini . 	<p>Lilanga- 1</p> <p>Emaculo nemiloloteo yetinombolo.</p>	

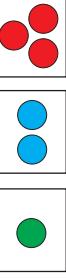
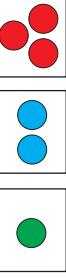
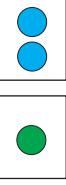
Liviki 14	Sikhatsi lesiphakanyisiwe sekufundzisa: Umsebenti munye weliklasa lohleliwe loholwa nguThishela (tikhatsi tetifundo) ± 30 emaminithi ngellanga (± 5 imisebenti yetibalo ngeliviki)		
Sihloko	<p>1.7 Kuhlanganisa nekususa</p> <p>Emanotsi lacacisako</p> <ul style="list-style-type: none"> Sombulula ubuye uchazze tinkinga tetibalo temagama (tibalo letitindzaba) letifaka ekhatsi inombolo -3 <p>Temilomo: Bala tintfo letisetjentiswa malanga onkhe ufike ku -3.</p> <p>Bala uye phambili nasemuva ufike ku -3.</p> <p>Umnyakato</p> <p>Tibonelo:</p> <ol style="list-style-type: none"> Thishela ubita bafundzi la -2 bete ekhaphethini abuye abite lomunye umfundzi -1. Bangaki bafundzi lasababitele ekhaphethini thihsela? Thishela utsi: 2 na -1 kukuniketa -3. Kunebafundzi labatsatfu.munye umfundzi ufuna likhilayoni lakhe. Sinamangaki emakhilayoni? Bantfwana labatsatfu bema ndzawonye. Munye uyaphuma endlini. Kusele bangaki? <p>Lokuphatsekako usebentisa tintfo letingemadaiyimenshini lamatsatfu (3-D)</p> <p>Tibonelo:</p> <ol style="list-style-type: none"> Thishela ubeka tibali le -3 etafuleni. Ususa tibali le- 2 kusele tingaki tibali etafuleni? Thishela utsi ku -3 ususe -1 kwenta -2. Phumi unabokati la- 2 wabuyu watfolo lomunye kati- 1 ku Busi. Unamangaki emakati Phumi nasewaphelle? 1 na -2 → 3. Thishela utsi -1 na- 2 kwenta- 3. Nangabe likati -1 linemsila -1, emakati lamatsatfu attakuba nemisila lemungaki nayihlangene? 1 na -1 na -1 → 3 	<p>Tinsita letiphakanyisiwe</p> <p>Budze besikhatsi lesilinganisiwe</p> <p>Lilanga -1</p>	

Liviki 14	Sikhatsi lesiphakanyisiwe sekufundzisa: Umsebenti munye welikasi lohleliwe loholwa nguThishela (tikhatsi tetifundvo) ± 30 emaminithi ngellanga (± 5 imisebenti yetibalo ngeliviki)		
Sihloko	Emanotsi lacacisako	Tinsita letiphakanyisiwe	Budze besikhatsi lesilinganisiwe
2.1 Emaphethini e-Jomethri	<ul style="list-style-type: none"> Cedzela iphethini leniketiwe ngetintfo le -2 Umnyakato <ul style="list-style-type: none"> Bafundzi batsatsela iphethini yemnyakato sib. zuba, zuba,zuba, zuba, zupa,zuba,zuba..... Bafundzi bacedzela emaphethini basebentisa sib .bema edvute nalomunye bantijntjana tanda enhioko, tandla ematsangeni, tandla enhioko Lokupnatszekako usebentisa tintfo letingemadayimenshini lamatsatu (3-D) <ul style="list-style-type: none"> Bafundzi batsatsela iphethini yentfo sib. Buhlalu, buhlalu, indvuku, buhlalu, Nobe ngutiphi tintfo indvuku..... 	Lilanga -1	

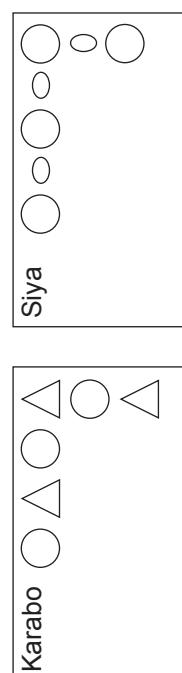
Liviki 14	Sikhatsi lesiphakanyisiwe sekufundzisa: Umsebenti munye weliklasi lohleliwe loholwa nguThishela (tikhatsi tetifundvo) ± 30 emaminithi ngelilanga (± 5 imisebenti yetibalo ngeliviki)	Emanotsi lacacisako	Tinsita letiphakanyisiwe	Budze besikhatsi lesilinganisiwe
3.2 Tintfo letingemada- yimenshini lamatsatfu (3-D)	<p>• Uhunga abuye acatsanise tintfo letingemada yimenshini lamatsatfu (3-D) nabobunjwa labangema 2-D ngekwetimpawu letitsite</p> <p>Lokuphatsekako usebentisa tintfo letingemada yimenshini lamatsatfu (3-D)</p> <p>Hlukanisa bafundzi babe macembu la 5.</p> <ul style="list-style-type: none"> - Thishela ugcogca tintfo letinyentu kute licembu linye lithlunge ngalokungenani ngetimpawu letimbili (tingaba tnyenti). - Niketa licembu linye tintfo letinetimpawu letimbili kutsi batihlungue. - Bafundzi: - Hlunga letintfo utibeke nekufana nekwehluka kwato. <p>Lokubonakalako ungeke ukuphatse usebentisa bobunjwa labanggemada-yimenshini lamabili (2-D) nobe tifombe</p> <p>Gcina bafundzi emacenjini abo.</p> <ul style="list-style-type: none"> - Calsanisa ubuye uhlunge tifombe letehlukene letigocwe nguthishela sib. Tifombe tetimhlobonhlobo tetimpahala, kudla, ifenisha, tifutsi njll. - Bafundzi bacedzela lisithhi lekusebentela lelimatanisa tifombe letimbili sib. Umutsi wekugeza ematinyo nesicubho, indvwangu yekugeza nensipho. 	<p>Tintfo letinjenje: Tinto tekugcoka letehlukene Titselo letehlukene</p> <p>Tilwane temapulastiki letehlukene tasepulasini</p> <p>Bobuniwa be-Jomethri labehlukene</p> <p>Emabhuloki ekwakha lehlukene</p> <p>Emabhuloki elego lehlukene</p> <p>Tintfo letehlukene temvelo nieng macembe, tindvuku, ematje njll.</p> <p>Emakinobho lehlukene njll.</p> <p>Timbonyo temabnodlela letinemibala leyehlukile</p> <p>Emakhilayoni lehlukene</p> <p>Gcogca tifombe emaphephabbukwini nakumafulya. Juba ubuye unamatselise emakhadini.</p>	Lilanga 1	

Liviki 14	Sikhatsi lesiphakanyisiwe sekufundzisa: Umsebenti munye weliklaso lohleliwe loholwa nguThishela (tikhatsi tetifundzo) ± 30 emaminithi ngellang'a (± 5 imisebenti yetibalo ngeliviki)	
Sihloko	Emanotsi lacacisako	Budze besikhatsi lesilinganisiwe
3.1 Kubebeka, kutetaryeta nekubukeka	<ul style="list-style-type: none"> Kubebeka kwetintto letimbili nobe letinyenti macondzana nemfundzi <ul style="list-style-type: none"> - Kugcizelela lwati lolufaka "ngetuлу/ ngephası" na "ngetuлу kwe" <p>Umnyakato</p> <p>Umfundzi ngamunye uhlala esitulwini.</p> <ul style="list-style-type: none"> - Bafundzi bakhombisa ngetuлу nangephası balandzela ticondziso tathishela sib. Hlala ngetuлу ebhokisi, lala ngephası kwelibhokisi nobe kwelitafula. - Hlala ngephası kwelitafula. Tente ubi mncane ngephası kwelitafula. - Mani esitulweni sakho ubuye utilule ufike etulu ngendlela lokhona ngayo. - Gibeia etafuleni ubuye ujikisa imikhono yenta tindilnga letinkhulu/letincane. chubekisela phambili usebentise lokukhudlwane/lokumbalwa. - Beka ibhuloki enhloko yakho bese ugibela etafuleni. - Khetisa bafundzi labashilau usebentise umlolotelo wetinombolo. - Hlebelia umfundzi ngamunye sicondziso. <ul style="list-style-type: none"> o Hlala ubeke tandla takho ngephası kwetinyawo o Mani ubeke tandla takho ematsangeni o Mani ubeke tandla takho ngemuva emhlane o Hlala ubeke tandla takho emahlonbe o Mani ugoce tandla takho ngembi kwakho <p>Bafundzi bema ngaphambili gesikhatsi labanye balelicembu bahleti ekhaphethini.</p> <p>Buta bafundzi loku:</p> <ul style="list-style-type: none"> - Wentani umfundzi wekucala? (<i>yena uh/eli</i>) - Tikuphi tandla takhe? (<i>tandla takhe tingephasi kwemilente yakhe</i>) - Kuphindze nakulabanye bafundzi usebentisekwesibili, kwesitsattu, kwesini nekwekugcina. - Khetsa licembu lelisha lente leticondziso letifana naletetinghila - Khiphela bafundzi ngaphandle bese bakhombisa lokumelwe ngulamagama etulu, ngephası, nargetulu ngekukhombisa likhono labo. 	<p>Tinsita letiphakanyisiwe</p> <p>Bafundzi Libhokisi</p> <p>Budze besikhatsi lesilinganisiwe</p>

Liviki 15	Sikhatsi lesiphakanyisive sekufundzisa: Umsebenti munye wellikasi i lohleliwe loholvwa nguthishela (tikhatsi tetifundvo) ± 30 emaminiti ngelilanga (± 5 imisebenti yetibalo ngeliviki)	Budze besikhatsi lesilinganisiwe
Sihloko	Emanotsi lacacisako	Tinsita letiphakanyisiwe
1.1 Bala tintfo	<ul style="list-style-type: none"> • Gcizelela Iwati lolutfoliwe lolufaka ngekhatsi inombolo 1, 2 na 3 <p>Temlomo: Bala tintfo letisetjentiswa malanga onkhe urike ku -3. Bala uye phambili nasemuva urike ku - 3 Bala ngenhloko kusukela ku 1-7</p> <p>Gcizelela Iwati loluphatselene “nalokunyenti nalokumbalwa” Shaya tandla kanyenti.....MANI.</p> <p>Shaya tandla sikhatsi lesincane.Thishela ushaya tandla aphindze ka -3</p> <p>Umrinyakato Gcugcutela bafundzi batfole <ul style="list-style-type: none"> - Siftfo1 semtimba lengakhona kuya etulu nobe phasi, ehangotsini linye nasehiangotsini lelinye ngekwalo sib. Lulwimi. - Tiffo temtimba le -2 letisetjentiselwa kuzuba sib. imilente </p> <p>Lokuphatsekako usebentisa tintfo letingemadaiyimenshini lamatsattu (3-D) Bafundzi batfufukisa lwati lwetimombolo nge: <ul style="list-style-type: none"> - Kusebentisa emabhuholi la -3 kwakha sakhiwo lesidze kakhulu. - Kuffola tintfo letintsatfu eklasini letibovu. </p> <p>Lokubonakalako ungeke ukuphatse usebentisa bobunjwa labangemadyimenshini lamabili (2-D) nobe tittombe Thishela udvweba sifombe lesilula <ul style="list-style-type: none"> - Thishela ubuta imibuto lemayelana nelinani letintfo letisettifombeni sib. Mangaki emfasitelo lowabonako? njil. </p>	<p>Lilanga- 1</p> <p>Emaculo nemilotolo yetinombolo</p> <p>Imitimbba yebafundzi. Kucula ubuye ulingise liculo sib. 'Bekunabatsattu embhedeni na', Umiolotelo wekubala sib. "Kunye kubili, ngibopha ticattfuo".</p> <p>Emabhuholi Tintfo letibovu</p> 

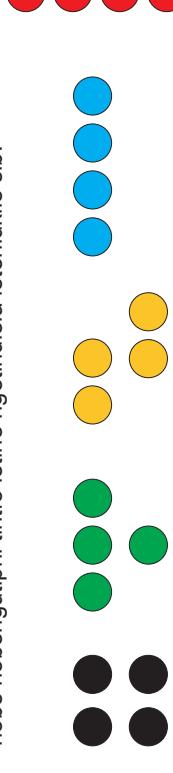
Livki 15	Sikhatsi lesiphakanyisiwe sekufundzisa: Umsebenti munye welikiasi loheliwe loholwa nguThishela (tikhatsi tetifundvo) ± 30 emaminithi ngelilianga (± 5 imisebenti yetibalo ngeliviki)		
Sihloko	Emanotsi lacacisako	Tinsita letiphakanyisiwe	Budze besikhatsi lesilinganisiwe
1.2 Bala uye phambili nasemuva	<p>• Sebentisa tinombolo 1, 2 naku- 3 kutimongcodvo letetaye lekile</p> <p>Temlomo: Bala tintfo letisetijentiswa malanga onkne urike ku -3. Bala uye phambili nasemuva urike ku -3 Bala ngenhloko kusukela ku 1- 7</p> <p>Gcizeler Iwati loluphatselenene “nalokumbalwa”</p> <p>Shaya tandla kanyenti.....MANL.</p> <p>Shaya tandla sikhatsi lesincane. Thishela ushaya tandla aphindze ka- 3</p> <ul style="list-style-type: none"> - Khutsata bafundzi kutsi batu tinombolo tetindlu ne likheli lesitaladi <p>Lokubonakalako ungeke ukuphatse usebentisa bobunjwa labangemada-yimenshini lamabili (2-D) nobe tifombe</p> <p>Bafundzi:</p> <ul style="list-style-type: none"> - Babuka tifombe letimele letinombolo 1, 2 na 3 letitfolakala emaphephahukvini nakumafilaya babuye bawanamatsisele ephepheni.(hlanganisa nebuciko bekubuka wente) - Baratanisa inombolo yentiffo nenombolo yemacashati iesenkhadini. - Bakhombisa likhadi lemacashati.bafundzi bajiba inombolo yemabini bhegi lefananako ngekhatsi ebhokisini - Badlala umdlalo webhodi “tinyoka netitepisi” nemadomino. <p>Emanotsi: tinombolo tindzawo tonkhe:</p> <ul style="list-style-type: none"> - Indlu ngayinye inenombolo - Sonkhe sinetinombolo telucingo letehlukene - Siyatbona tinombolo emafasitelweni esitolo. - Sibona tinombolo emikhicitweni leyehlukene nangabe sitenga - Sibona tinombolo etimotweni 	<p>Lilanga 1</p>     <p>Emaculo nemilolotelio yetinombolo</p> <p>Emaphephahuku, tikhangisi emakhadi emacashati</p> <p>“tinyoka netitepisi” umdlalo webhodi Idomino</p>	

Livki 15	Sikhatsi lesiphakanyisiwe sekufundzisa: Umsebenti munye welikasi loheliwi loholwa nguThishela (tikhatsi tetifundo) ± 30 emaminithi ngelilianga (± 5 imisebenti yetibalo ngeliviki)	
Sihloko	Emanotsi lacacisako	Tinsita letiphakanyisiwe
1.4 Chaza, ucatsanise ubuye uhlele tinombolo:	<p>Hleia ubuye ucatsanise tintfo letigcogiwe ‘kunyentii kuna-, kuncane kuna-’ na “kulingga na kufike enombolweni ye -3 Umnyäkato</p> <p>Bita bafundzi lababili bete ngaphambili. Abahale bente indilinya.</p> <ul style="list-style-type: none"> - Bafundzi lababili abeme. Bangaki labaheli? Babaleni. bangaki labemile? Babaleni. Nguyiphi inombolo lenyenti, nguyiphi inombolo lencane? - Bafundzi labatsatfu abeme. Babaleni., nguyiphi inombolo lenyenti/ lencane? Akusukume lomunye munye. Babaleni. Ngabe bafundzi labaheli banyenti kunalabo labemile? - Phindza ngetinombolo -1 kuye ku -3. - Bala emanfombatane. Bala bafana. Ngabe kunebafana labanyenti Kunemanfombatane? <p>Lokuphatsekako usebentisa tintfo letingemadymenshini lamatsattu (3-D)</p> <p>Hlukanisa bafundzi ngemacembu la -5</p> <p>Niketa licembu ngalinye siceshana sensntfo netintfo leti ±5.</p> <p>Bafundzi bakha sikhehe ngesontfo.</p> <ul style="list-style-type: none"> - Thishela uhlabeleda licembu ngalinye alicele kutsi lente incumbi yetintfo le -3 nobe- 2 nobe -1 “etidlekeni” tabo - Bafundzi kumele batfole kutsi nguliphi licembu lelinetintfo letinyenti kuna- 1 - Nguliphi licembu lelinetintfo letincane kuleti- 3? - Nguliphi licembu lelinetinombolo tetintfo letfranako? 	<p>Budze besikhatsi lesilinganisiwe</p> <p>Lilanga -1</p> <p>Insonntfo</p> <p>tintfo leti-5 ngelicembu</p>

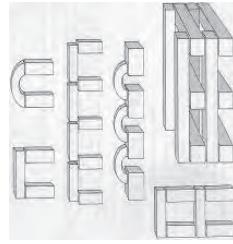
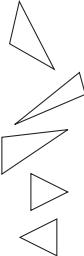
Livki 15	Sikhatsi lesiphakanyisiwe sekufundzisa: Umsebenti munye welikasi loheliwe lohola nguThishela (tikhatsi tetifundvo) ± 30 emaminithi ngelilianga (± 5 imisebenti yetibalo ngeliviki)		
Sihloko 2.1 Emaphethini e-Jomethri	<p>Emanotsi lacacisako</p> <ul style="list-style-type: none"> Tsatsela ubuye ucedzele emaphethini laniketiwe njengesibhakabbaka' lomtfubi <p>Umnyakato</p> <ul style="list-style-type: none"> - Thishela ulingisa iphethini. Uyayiphindza abuye alandzele sigci sib. o Shaya tanda, Khalisa(iminwe), shaya tanda,khalisa o Khalisa iminwe, shaya tanda, shaya phasi ngelunyawo, Khalisa iminwe, shaya tanda, shaya phasi ngelunyawo, o shaya tanda, Khalisa iminwe, Khalisa iminwe, shaya tanda, Khalisa iminwe, Khalisa iminwe <p>Lokuphatsekako usebentisa tintfo letingemadayimenshini lamatsattu (3-D)</p> <p>Thishela uniketa umfundzi ngamunye tibali nobe timbolo temabhdolela leti -3 letibovu, tintsfatu letiluhlata rjesibhakabbaka natintsfatu letimtfubi</p> <p>Bafundzi:</p> <ul style="list-style-type: none"> - Batsatsela iphethini labaniketwe yona ephethinini yathishela sib. Ibovu, lobovu, loluhlata njengesibhakabbaka, lomtfubi, (phindza emahlandia lamanyenti ngephethini leyehlkile) - Cedzela iphethini leniketiwe sib. Lokuluhiata njengesibhakabbaka, lokumtfubi, lokubovu..... (phindza emahlandia lamanyenti ngephethini leyehlkile) - Bafundzi abahlunge tibali ngemibalala lemitsatu leyehlkene. <p>Lokubonakalako ungeke ukuphatse usebentisa bobunjwa labangemada-yimenshini lamabili (2-D) nobe tifombe</p> <ul style="list-style-type: none"> - Niketa umfundzi ngamunye liphepha - Bafundzi abacedzele bunjwa wesigubhu longemadayimenshini lamabili (2-D) - Cedzela lesitjombe ngesikhatsi sebuciko bekubuka wente ngekudvweba sitfombe emkhatsini. 	<p>Tinsita letiphakanyisiwe</p> <p>Budze besikhatsi lesilinganisiwe</p> <p>Lilang-a-1</p>	

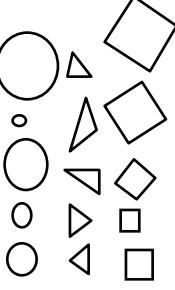
Livki 15	Sikhatsi lesiphakanyisiwe sekufundzisa: Umsebenti munye welikasi loheliwe loholwa nguThishela (tikhatsi tetifundo) ± 30 emaminithi ngelilanga (± 5 imisebenti yetibalo ngeliviki)		
Sihloko	Emanotsi lacacisako	Tinsita letiphakanyisiwe	Budze besikhatsi lesilinganisiwe
4.2 Budze	<p>Catsanisa ngalokuphatsekako ubuye uhlele tintfo usebentise lwatimagama kute uchaze budze</p> <ul style="list-style-type: none"> - kudze, kufisha, - kudzenyana, kufishanyana, - kudze kakhulu, kufisha kakhulu, <p>Umnyakato</p> <ul style="list-style-type: none"> - Umfundzi mnye akalale phasi bese labanye bafundzi babeke emabholuki ente umugca eceleni nemtimba. - Thishela ucela liklasi/licembu lonkhe kutsi lakhe lokutsite lokufisha kunebangani babo nalokudze kunebangani babo. <p>Bafundzi batfola kutsi:</p> <ul style="list-style-type: none"> - Ngusiphi sakihiwo lesidze? - Ngusiphi sakihiwo lesidze kakhulu? - Ngusiphi sakihiwo lesifisha? - Ngusiphi sakihiwo lesifisha kakhulu? <p>Bafundzi abahlele tintfo letitinhlobonhlobo:</p> <ul style="list-style-type: none"> - Bacala kulokudze kakhulu kuye kulokfisha kakhulu - Bacale kulokuncane kuye kulokfkhulu - Bafundzi abacatsanise budze betinfo letehlukene. <p>Thishela uniketa bafundzi sicesthana sensontfo. Khutsata bafundzi kutsi bancombele ngembi kwekubala.</p> <p>Bafundzi abakale:</p> <ul style="list-style-type: none"> - Inhloko yalomunye. - Tinyawo talomunye. - Emacakala abo. - Thihakala tabo. <p>- Bafundzi abacatsanise budze lobehlukene ngekubona kutsi ngusiphi sicesthana sensontfo lesidze nobe lesifisha sib. Intsambo yekukala letungelete inhloko yami yidze kune nsambo yekukala letungelete shihakala sami.</p> <p>- Bafundzi abatfole kutsi ngabe kucambela kwabo kungiko/kukahle.</p>	<p>Lilanga 1</p> <p>Emabholuki ekwakha</p> <p>insontfo umtiya emakhilayoni lanebudze lobehlukile insontfo bafundzi</p>	<p>Budze besikhatsi lesilinganisiwe</p>

Liviki 16	Sikhatsi lesiphakanyisive sekufundzisa: Umsebenti munye welikiasi loheliwe loholwa nguthishela (tikhatsi tetifundo) ± 30 emaminithi ngelilianga (± 5 imisebenti yetibalo ngeliviki)		
Sihloko	Emanotsi lacacisako	Tinsita letipahakanyisive	Budze besikhatsi lesilinganisiwe
1.1 Bala tintfo	Ngenisa inshokutsi yenombolo - 4 Temlomo: Bala tintfo letisetjentiswa malanga onkhe urike ku- 4. Bala uye phambili nasemuva urike ku -4. Bala ngenhloko kusukela ku 1- 7	Gcizelela lwati loluphatselene “nalokunyenti nalokumbalwa” Shaya tandla kanyenti.....MAN. Shaya tandla sikhatsi lesincane. Thishela ushaya tandla aphindze ka -3.	Emaculo nemilololelo yetinombolo Imitimba yebafundzi
Umyakato	Bafundzi: <ul style="list-style-type: none"> - Bagencetisa tinhloko tabo ka -4. - Bentia inombolo ku- 4 basebentise imitimba yabo. Bafundzi batfolka kutsi batawudzinga bantwana labangaki. - Bafundzi bayacimeta. Thishela ushaya etafuleni ka -4. Bayula emehlo bese bayasho kutsi tandla bative tishaya kangaki. Phindza rgetinombolo -1 kuye -4. 		Lilanga -1

Sikhatxi lesipnakanyisiwe sekufundzisa: Umsebentzi munye weliklasi loheliwi loholvwa nguthishela (tikhatsi tetifundvo) ± 30 emaminithi ngelilanga (± 5 imisebenti yetibalo ngeliviki)							
Liviki 16	Sihloko	Emanotsi lacacisako	Tinsita letiphakanyisiwe	Budze besikhatsi lesilinganisiwe			
1.1 Bala tintfo	Lokuphatsekako usebentiza tintfo letingemadayimenshini lamatsattu (3-D) Bafundzi: <ul style="list-style-type: none">- Yakhxa lenombolo -4 ngenhlama yekudlala.- Tfola bangani la 4 labagcoke ticattulo- Tfola tintfo le -4 letiyindilina.- Vala bafundzi emehlo ubuye ubente bakwati kutfola tinombolo -1kuye -4 ngekutsintsia /kutfungatsa emakhadhi tinombolo laphatsekako.- Tfutufukisa lwati lekugicina/ekubekeka kwetinombolo ngekutsi bafundzi bapake tibali nobengutiphi tintfo letine rgetindlela letehlikile sib.  Nangabe ubala, inombolo yetintfo ayitsikabetwa yisayizi yato, nobe kubekaka nobengabe teluhlobo lolufanako. Sibonelo: <ul style="list-style-type: none">- Hila emakinobho la -4, emapeniseli la -4, emahhulahhubhu la-4, bafundzi la -4 jii.- Wabale nekuhuleka lokwehlukene sib. Wabale asabalele, asondzelene, asemgceni nobe apakiwe Lokubonakaloko ungeke ukuphatse usebentise bobunjwa labangemadamayimenshini lamabili (2-D) nobe titfombe Bafundzi: <ul style="list-style-type: none">- Tfola titfombe leti- 4 ubuye unamatisisele ephepheni.- Matanisa inombolo yetintfo nemombolo yemacashati lasekhadini lekflesha.- Tfola ifleshi khadi lenemacashati lamane.	Inhlama yekudlala Tintfo letiyindilina Yenta isethi yemakhadhi tinombolo laphatsekako ngekujuba tinombolo esayini phepheni ubuye utinamatisisele etincetwini letehlikene telihokisi. Nangabe uiaminetha lamakhadi bafundzi bangabuye bawasebentisele kwakha inombolo yelubumba ekhadini. tibali le -4 nobe tintfo le - 4 umfundzi ngamunye emaphphebuku, emafulya, sikhangisi liphepha le- A4 nesinamatiselesi <table border="1"><tr><td>Sittombe</td><td>setintfo</td></tr><tr><td>le- 4</td><td></td></tr></table>	Sittombe	setintfo	le- 4		Lilanga -1
Sittombe	setintfo						
le- 4							

Liviki 16	Sikhatsi lesiphakanyisive sekufundzisa: Umsebenti munye welikiasi loheliwe loholwa nguthishela (tikhatsi tetifundo) ± 30 emaminithi ngelilianga (± 5 imisebenti yetibalo ngeliviki)		
Sihloko	Emanotsi lacacisako	Tinsita letipahakanyisive	Budze besikhatsi lesilinganisiwe
1.4 Chaza, ucatsanise ubuye uhole tinombolo	<ul style="list-style-type: none"> Sebentisa inombolo - 4 kungcikitsi ileyetayet ekile <ul style="list-style-type: none"> Inombolo kune ikwenta ucabange ngani? Imoto - emasondvo lamine Stitulo - tinyawo letine Inja - tidladla letine Litafula - tinyawo letine Kutfutukisa kubamba ngenhloko, khutsata bafundzi kutsi babambe ngenhloko tinombolo tetindlu nemakheli akubo <p>Lokuphatsekako usebentisa tintfo letingemadayimenshini lamatsattu (3-D)</p> <ul style="list-style-type: none"> Nika litfuba lekudlala umdialo welikhadi nombolo lokhona eklasini <p>Lokubonakalako ungeke ukuphatse usebentisa bobunjya labangemadyimenshini lamabili (2-D) nobe tiffombe</p> <ul style="list-style-type: none"> Khombisa likhadi lelinanombolo -4 <p>Dlala imidialo lefana na:</p> <ul style="list-style-type: none"> Nangabe inombolo yendlu yakini ina -4, shaya tandla ka -4. Tfola umngani eklasini lonenombolo yendlu lefana neyakho eklasini. (bafundzi babuta bangani babo tinombolo tetindlu takubo) Ngubani loneitinombolo tendlu yakuubo letendulu ku -4? Khomba bafundzi likhadi lelinemacashati lamine. Kubona emakhadi lanetitfombe letine. 	<p>Lilanga 1</p> <p>Emakheli asemakhaya ebafundzi bafundzi</p> <p>4</p> <p>Nobe nguwuphi umdialo welikhadi nombolo lokhona</p> <p>Siftombe setintfo le - 4</p> <p>Emakhadi lanetitfombe le -4 nemacashati la -4</p>	

Liviki 16	Sikhatsi lesiphakanyisiwe sekufundzisa: Umsebenti munye welikasi loheliwe loholwa nguthishela (tikhatsi tetifundvo) ± 30 emaminithi ngelilianga (± 5 imisebenti yetibalo ngeliviki)		
Sihloko	Emanotsi lacacisako	Tinsita letipahakanyiswe	Budze besikhatsi lesilinganisiwe
3.2	<p>Kuveta emaffuba ekusebentisa emabhuuki ekwakha</p> <p>Bafundzi:</p> <ul style="list-style-type: none"> - Basebentisa nobe nguwaphi emabhuuki lamane kwakha sakhwi. - Bakha sakhwiwo lesinemabhuuki la -3 kuya etulu/budze nemabhuuki la -5 lavundile. - Basebentisa emabhuuki lamanyenti labangawadzinga njengobe batawudzinga kwakha sitimela. - Babona kutsi ngubani lowakhe sitimela lesidze kakhulu. - Bakha sakhwiwo lesikhulu kakhulu (Lesiya etulu). - Bakha sakhwiwo lsiyifathi sib. Umgwaco nobe indlu (Iokuvundile) - Babona kutsi ngubani lowakhe sakhwiwo lesidze kakhulu. - Niketa emabhuuki ekwakha ngesikhatsi lesikhulekile sekudiala ngekhatsi endlini kufe bafundzi bachubuke basebente ngemabhuuki ekwakha. 	 <p>Lilanga -1</p> <p>Emabhuuki ekwakha.</p>	
3.3	<p>Tfutukisa likhono lekuhluukanisa emkhatsini wabobunjwa labasendzaweni yetfu, ngaphandle kwasayizi nobe isayizi ye-engeli</p> <p>Umnyakato</p> <p>Bafundzi labasemacenjinji lahamba ngaba -3:</p> <ul style="list-style-type: none"> - Balala phasi bese benta calantsatfu ngemitimba yabo. Veta kutsi nanobe calantsatfu ngamunye ecenjinji abonakala ehlukil, lobunjwa solo nguye calantsatfu. - Thishele udvweba bocalantsatfu labehlukene phasi/ebaleni sib. 	 <p>Lilanga -1</p> <p>Kheitza umnyakato munye, usebenti lophatssekako nalocische uphatske</p>	<p>Tintsi leti-7 umfundzi ngamunye</p> <p>- Bafundzi bahambla eceleni kwemacala abobunjwa babuye batfole ema-engeli lehlukene ngemitimba yabo</p>

Liviki 16 Sikhatsi lesiphakanyisiwe sekufundzisa: Umsebenti munye weliklasi loheliwe loholwa nguThishela (tikhatsi tetifundvo) ± 30 emaminithi ngelilangga (± 5 lmisebenti yetibalo ngeliviki)		
Sihloko	Emanotsi lacacisako Tinsita letiphakanyisiwe Budze besikhatsi lesilinganisiwe	
3.3 Bobunjwa labangemada-yimenshini lamabili (2-D)	<p>Lokuphatsekako usebentisa tintfo letingemadayimenshini lamatsattfu (3-D)</p> <ul style="list-style-type: none"> - Sebentisa tintsi leti- 7 ubuye utibeka emgceni locondzile  <ul style="list-style-type: none"> - Sebentisa tintsi kwenta umugca lonemajiko  <ul style="list-style-type: none"> - Sebentisa tintsi kwenta izigizagi.  <ul style="list-style-type: none"> - Sebentisa tintsi kwenta calantsatfu.  <ul style="list-style-type: none"> - Veta kutsi bocalantsattfu bemfundzi ngamunye abefani kodwva labobuniwa bonkhe basengibo bocalantsattfu. <p>Lokubonakalako ungeke ukuphatse usebentisa bobunjwa labangemada-yimenshini lamabili (2-D) nobe tifombe</p> <p>thishela udvweba tindilinga, bocalantsattfu netikwele leti-5 letehlukene ekhadini.</p>	<p>Emakhadhi lanetindilinga, bocalantsattfu netikwele leti-5 letehlukene</p>  <p>Thishela uhlukanisa bafundzi ngemacembu.</p> <ul style="list-style-type: none"> - Tfola emakhadhi labocalantsattfu ekhatsini walabanye bobuniwa bafundzi:

Liviki 16	Sikhatsi Iesiphakanyisiwe sekufundzisa: Umsebenti munye welikiasi loheliwe loholwa nguThishela (tikhatsi tetifundo) ± 30 emaminithi ngelilianga (± 5 imisebenti yetibalo ngeliviki)	
Sihloko	Emanotsi lacacisako	Tinsita letipahakanyiswe
4.2 Budze	<p>Catsanisa ubuye uholele tintfo ngendilela lelula usebentise Iwati lonalo kuchaza budze</p> <p>- kudze, kufisha, - kudzana, kufishanyana, - kudze kakhulu, shortest, - kufisha, kufishanyana, kufisha kakhulu - kudze, kudzana,lokudze kakhulu</p> <p>Kuffutukisa Iwati Iwebudze</p> <p>Umnyakato</p> <p>Bafundzi:</p> <ul style="list-style-type: none"> - Bafola budze ngekucatsanisa tintfo lenye naleyne. - Babona kutsi nguyiphi intfo lenkhulu kakhulu nekutsi nguyiphi intfo lemfisha kakhulu. - Bacatsanisa budze bebefundzi lababili babuye batfole kutsi ngumuphi umfundzi lomfisha nekutsi ngumuphi lomudze - Bacatsanisa budze bebefundzi labadluu kulababili babuye batfole imibuto lenjenga “ngumuphi umfundzi lomfisha kakhulu , ngumuphi futsi lomudze kakhulu.Thishelle uphindze akale bafundzi asebentisa lishadi lebudge lethemu yekucala. - Thishela uyekela lokurekhodwe ngethemu leyengcile (tandla letineluphawu/sitfombe sebefundzi) kute bakwai kucatsanisa letilinganiso letimilli. - Bafundzi batfola kutsi ngabe bakhulu kusukela ethemini leyengcile. - Ngubani longakakhuli nhlobo? - Ngubani lokhule kakhulu kusukela ethemini yekucala? sib. <p>Budze ba-Ebi solo bunjalo.</p>	<p>Lilanga 1</p> <p>Budze besikhatsi lesilinganisiwe</p> <p>Lishadi lebudge</p> <p>emapenisieli, insoninfo, intsambo, emaphekisi, nj!!. silinganiso sesandia lishadi lebudge Ebi 6 tandla Sipho 6 tandla</p>

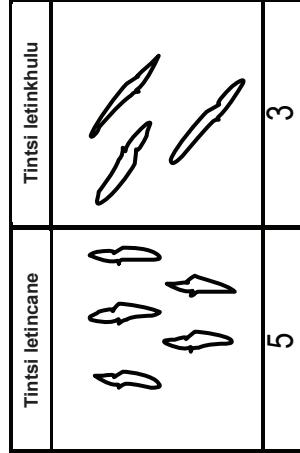
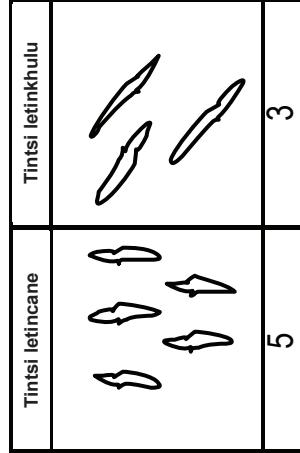
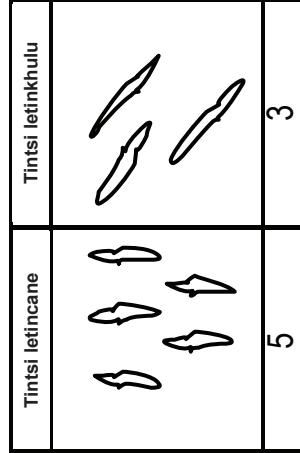
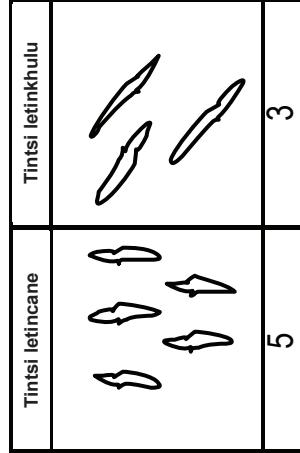
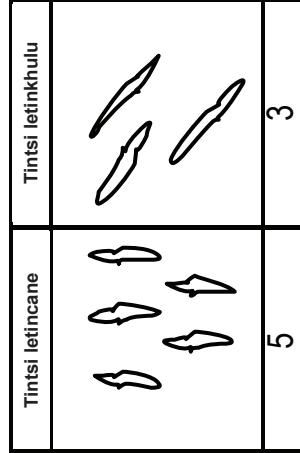
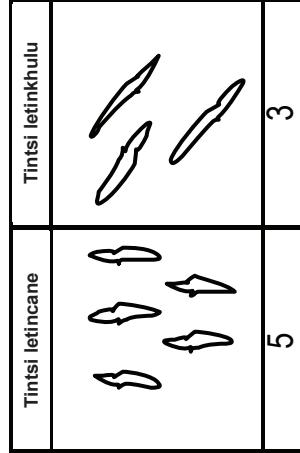
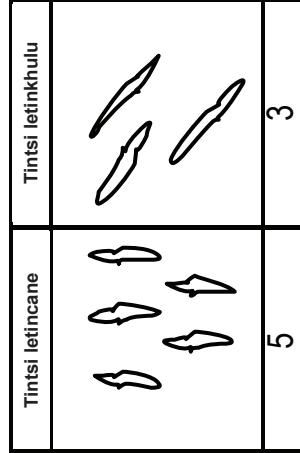
Sikhatsi lesiphakanyisiwe sekufundzsa:				
Livki 17	Umsebenti munye welikasi loheliwe loholwa nguThishela (tikhatsi tetifundo) ± 30 emaminithi ngelilianga (± 5 imisebenti yetibalo ngelivik)	Emanotsi lacacisako	Tinsita letiphakanyisiwe	Budze besikhatsi lesilinganisiwe
Sihloko 1.1 Bala tintfo	<ul style="list-style-type: none"> Gcizelela Iwati loluzuwiwe ngenshokutsi yenombolo 4 <p>Temlomo: Bala tintfo letisetijentiswa malanga onkhe urike ku- 4. Bala uye phambili nasemuva urike ku- 4</p> <p>Gcizelela Iwati loluphatselene “nalokunyenti nalokumbalwa”</p> <p>Shaya tandla kanyenti.....MANL.</p> <p>Shaya tandla sikhatsi lesincane. Thishela ushaya tandla aphindze ka- 4.</p>	<p>Umnyakato</p> <p>Bafundzi:</p> <ul style="list-style-type: none"> Babbala inombolo -4 emoyeni basebentise tingalo tabo. Hlabela liculo sib. ‘Emabhdilela lamane lauluhalta la lenga ebondzeni....’ Jikeleta ka- 4. 	<p>Lokuphatsekako usebentisa tintfo letingemadayimenshin lamatsatfu (3-D)</p> <p>Bafundzi batutfukisa lwati lwetinombolo:</p> <ul style="list-style-type: none"> Dweba inombolo- 4 esantini. Tfola tinto le-4 letingemadayimenshin lamatsatfu (3-D) letingagicika. Kwakha emphazili lanetinctu le -4. <p>Lokubonakalako ungeke ukuphatse usebentisa bobunjwa labangemadyimenshin lamabili (2-D) robe tifombe</p> <ul style="list-style-type: none"> Thishela uvetsa emakhadigama la- 4. Thishela ukhombisa ligama abuye akhombise sitombe selithoyisi nobe sesilwane. Umfundzi lelkukhonjiswe ligama lakhe utveta ngekutsi ente umsindvo lowentiwa lithoyisi lakhe. Phindza uze ukhombise onkhe emagama lamane. Buta kufisi mangaki emagama ebatfundzi? Mangaki emathoyisi/titombé lenitibonile? 	<p>Ithleyi/libhokisi lelinesanti lamatsatfu(3-D) letingagicika</p> <p>Emaphazili la-4</p> <p>Likhadi lelinesitfombe selithoyisi</p> <p>Emakhadi lanetitfombe tetilwane</p>
Lilanga -1				

Livki 17		Umsebenti munye welikasi loheliwe loholwa nguThishela (tikhatsi tetifundo) ± 30 emaminithi ngelilianga (± 5 imisebenti yetibalo ngeliviki)		
Sihloko	Emanotsi lacacisako	Tinsita letiphakanyisive	Budze besikhatsi lesilinganisiwe	
1.3 Timphawu nemagama etinombolo	<ul style="list-style-type: none"> Watini inombolo ubuye ubone ligama lenombolo - 4 <p>Temlomo: Bala tintfo letisetjentiswa malanga onkhe urike ku- 4. Bala uye phambili nasemuva urike ku- 4.</p>		Lilanga -1	
	<p>Gcizelela Iwati loluphatselene “nalokunyenti nalokumbalwa”</p> <p>Shaya tandla kanyenti.....MANI.</p> <p>Shaya tandla sikhatsi lesincane. Thishela ushaya tandla aphindze ka- 4.</p> <p>Umnyakato</p> <ul style="list-style-type: none"> Bhala inombolo kune emoyeni. Yibhale phasi, emhlane wemngani wakho Phakamisa ininwe le- 4 Thishela ushaya sigubhu. Nangabe sigubhu siithula, bafundzi bakha emacembu lahamba ngabane. <p>Lokubonakalako ungeke ukuphatse usebentisa bobunjwa labangemada-yimenshini lamabili (2-D) nobe tiffombe</p> <ul style="list-style-type: none"> Khombisa bafundzi likhadi lelinenombolo ku- 4. Bona ligama lenombolo lelisekhadini lekukhombisa inombolo. Condzanisa inombolo nenombolo yetintfo letilingana nayo. 	<p>Limakhadi lkhomba inombolo Likhadi letineligama lenombolo kune Tintfo letingemadayimenshini la-3(3-D)</p> <table border="1"> <tr> <td>4</td> <td>Kune</td> </tr> </table>	4	Kune
4	Kune			

Sikhatsi lesiphakanyisiwe sekufundzisa:				
Livki 17	Umsebenti munye welikasi loheliwe loholwa nguThishela (tikhatsi tetifundo) ± 30 emaminithi ngelilanga (± 5 imisebenti yetibalo ngelivik)	Emanotsi lacacisako	Tinsita letiphakanyisiwe	Budze besikhatsi lesilinganisiwe
1.3 Timphawu nemagama etinombolo	<ul style="list-style-type: none"> Watini inombolo ubuye ubone ligama lenombolo - 4 <p>Temlomo: Bala tintfo letisetjentiswa malanga onkhe ufike ku- 4. Bala uye phambili nasemuva ufike ku- 4</p>			Lilanga -1
1.7 Kuhlanganisa nekususa	<ul style="list-style-type: none"> Bala ngemlomo ubuye uchaze timphendvulo tetibalo temagama (tibalo tetindzaba) lokufaka ekhatsi inombolo ku- 4 <p>Lokuphatsekako usebentisa tintfo letingemadayimenshiri lamatsattu (3-D)</p> <p>Tibonelo:</p> <ol style="list-style-type: none"> 1. Thishela ukunkiketa emabhułoki la- 2 kantsi bewuvele una- 2 emabhułoki. Unamangaki nangabe sewaphele? 2. Nangabe unetilidilinga le- 2letiluhla njengesibhakabbaka netindilnga letibovu, unatingaki tindilnga nangabe setionkhe? 3. Sipho unemakhilayoni lama- 4 bese Joyi abera- 1 likhilayoni. Ngubani lonemakhilayoni lamanyenti? 4. Nangabe Jodi anabomdoli la- 4 bese ulahlekewa ngu- 1, utawusala nabangaki bondoli? <p>Hlukanisa bafundzi ngemacembu.</p> <p>Niketa licembu ngalinye incumbi yetintfo sib.emapeniseli, emakhilayoni, tinhomisi, bobuniwa.bafundzi ababelane letintfo lebatifilile banike llunga licembu ngalinye (kunye kucondzane namunye)</p> <p>Buta umbuto lonjenga: "tikhona yini letisele?"</p> <p>(thishela kumele acinisekise kutsi kunetintfo letintenyi letedluia inombolo yebafundzi labasecenjini. Susa tintfo kute ukhombise nekwabelana ngalokulinganako)</p>		Tindilnga letiluhla njenge sibhakabbaka naletibovu Bomdoli Tintfo letintenyi (yinye ngemfundzi ndamunye) njenge mapenseli, emakhilayoni, tinhomisi, bobuniwa	

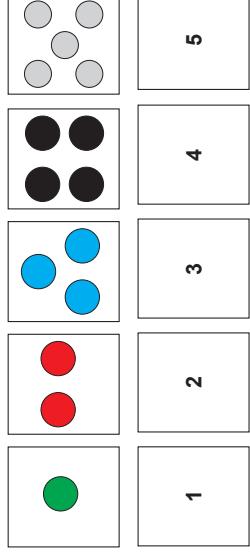
Sikhatsi lesiphakanyisiwe sekufundzsa:											
Livki 17	Umsebenti munye welikasi loheliwe loholwa nguthishela (tikhatsi tetifundo) ± 30 emaminithi ngelilianga (± 5 imisebenti yetibalo ngeliviki)	Sihloko	Emanotsi lacacisako	Tinsita letiphakanyisiwe							
1.3 Timphawu nemagama etinombolo	<ul style="list-style-type: none"> Watini inombolo ubuye ubone ligama lenombolo - 4 <p>Temlomo: Bala tinflo letisetjentiswa malanga onkhe ufi ke ku- 4. Bala uye phambili nasemuva ufi ke ku- 4.</p>			Lilanga -1							
1.4 Chaza, ucatsanise ubuye uhlele tinombolo	<ul style="list-style-type: none"> Hhela ubuye ucatsanise lugcogco lvetintfo usebentise "lokunyenti kuna, lokuncane kuna "nalokulingga na" ufi ke ku-up 4 <p>Hlukanisa batfundzi ngemacembu</p> <ul style="list-style-type: none"> - Thishela unika licembu linye tibali le- 4 neticeshana letimbili tensontfo. <p>Licembu:</p> <ul style="list-style-type: none"> - Lakha tindilinga letimbili (emasethi) ngensonntfo. - Lifaka tibali esethini ngayinye ngekulandzela ticondziso tathishela. - Emalunga elicembu atfolu kutsi nguyiphi isethi lenetibali letinyenti kunalenye? (lokunyenti kuna) - Nguyiphi indilinga lenenombolo yenetibali letincanyana kunaletikulenye indilinga? (kuncane kuna) - Nguyiphi indilinga lenenombolo yetibali letifana naletikulenye indilinga? - Nguyiphi indilinga lenenombolo yetibali lefana nalekulerye indilinga? (kuyalingana) <p>Lokubonakalako ungeke ukuphatse usebentisa bobunjwa labangemada-yimenshini lamabili (2-D) nobe tifombe</p> <p>Hhela isethi yemakhadittifombe ngekulandzelana kwavo sib.</p> <table border="1"> <tr> <td>Siftombe sentfo -1</td> <td>Siftombe sentfo -2</td> <td>Siftombe sentfo -3</td> <td>Siftombe sentfo -4</td> </tr> </table> <p>Hhela isethi yemakhadit tifombe ngekuehleka lokungiko sib.</p> <table border="1"> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </table>	Siftombe sentfo -1	Siftombe sentfo -2	Siftombe sentfo -3	Siftombe sentfo -4					<p>Insonntfo</p> <p>Tibali le-4</p>	
Siftombe sentfo -1	Siftombe sentfo -2	Siftombe sentfo -3	Siftombe sentfo -4								

- Buta imibuto lenjena "nguliphi likhadi lelinetintfo/ emacashati lamanyent?
- Nguyiphi inombolo lenkhulu kuna - 2 njii?

Sikhatsi lesiphakanyisiwe sekufundzsa:										
Livki 17	Umsebenti munye welikasi loheliwe loholwa nguThishela (tikhatsi tetifundo) ± 30 emaminithi ngelilanga (± 5 imisebenti yetibalo ngeliviki)	Emanotsi lacacisako	Tinsita letiphakanyisiwe	Budze besikhatsi lesilinganisiwe						
Sihloko										
1.3 Timphawu nemagama etinombolo	<ul style="list-style-type: none"> Watini nobolo ubuye ubone ligama lenombolo - 4 Temlomo: Bala tintfo letisetjentiswa malanga onkhe ufike ku-4. Bala uye phambili nasemuva ufike ku-4. 			Lilanga -1						
5.1 Gcogca ubuye uhlunge tintfo	<ul style="list-style-type: none"> Kututfukisa inchubo yekusebenta ngedatha Lokuphatsekako usebentisa tintfo letingemadyimenshini lamatsatfu (3-D) <ul style="list-style-type: none"> Bafundzi abagcogce tints i le- 9. Hlunga tints i ngesayizi lencane nalenkhulu. 			Bafundzi batentela lugcogco lwetintsi						
5.2 Kumela ligcogco letintfo lethlungiwe	<p>Dwweba emagrafu kukhombisa idatha Lokubonakalako ungeke ukuphatse lokubobunjiwa labangemada-yimenshini lamabili (2-D) nobe titfombe</p> <ul style="list-style-type: none"> Yenta igrafutitfombe ngetintsi. Bafundzi bafaka letintsi kulegrafutitfombe ngesayizi yato lokungu. letincane naletikhulu. 			Lishadi lekusebenta legraftitfombe. Thishela wenta liphepha le-A4 lelinemakholumu lafanele lentelewe umfundzi ngamunye						
5.3 Coca ubuye ubike ngellicogco letintfo lethlungiwe	<p>Fundza ubuye utumushe emagrafu</p> <ul style="list-style-type: none"> Coca ngemiphumela ngekubuta imibuto sib. "Tingaki tints i letincane lapho? Tingaki tints i letinkhulu? Ngutiphi letinyenti kakhulu/letincane kakhulu?" 		<table border="1"> <tr> <td>Tints i letincane</td> <td>Tints i letinkhulu</td> </tr> <tr> <td></td> <td></td> </tr> <tr> <td>5</td> <td>3</td> </tr> </table>	Tints i letincane	Tints i letinkhulu			5	3	
Tints i letincane	Tints i letinkhulu									
										
5	3									

Livki 18	Sikhatsi lesiphakanyisiwe sekufundzisa: Umsebenti munye welikasi loheliwe loholwa nguThishela (tikhatsi tetifundo) ± 30 emaminithi ngelilanga (± 5 imisebenti yetibalo ngeliviki)		
Sihloko	Emanotsi lacacisako	Tinsita letiphakanyisive	Budze besikhatsi lesilinganisiwe
1.1 Bala tintfo	<ul style="list-style-type: none"> Gcizelela Iwati lolutfoliwe lolufaka tinombolo 1, 2, 3 na- 4. <p>Temlomo: Bala tintfo letisetjentiswa malanga onkhe urike ku-4. Bala uye phambili nasemuva urike ku-4 Bala ngenhloko kusukela ku-1- 7</p> <p>Gcizelela Iwati loluphatselene “nalokunyenti nalokumbalwa”</p> <p>Shaya tandla kanyenti.....MAN!</p> <p>Shaya tandla sikhatsi lesincane. Thishela ushaya tandla aphindze ka- 3.</p> <p>Umnyakato</p> <p>Bafundzi:</p> <ul style="list-style-type: none"> - Babhala inombolo ku- 1 emoyeni bsebentisa iminwe yabo. - Bafundzi babamba tinhloko tabo ka- 2. - Bachebula bafundzi la-4 labehlukene. - Bavala bafundzi emehlo babuyue batfole tinombolo- 1 kuye ku-4 ngekutsinta/kufuna likhadinombolo leliphatsekako. <p>Lokuphatsekako usebentiise tintfo letingemadayimenshini lamatsatfu (3-D)</p> <p>Bafundzi:</p> <ul style="list-style-type: none"> - Badwweba lenombolo -1 esantini. - Baffola ku- 3 lokutintfo letifanako. - Zuba ka-2 ngaleso sikhatsi.(kabilii) - Bakha emaphazili lane ngetincetu le- 4 naletinyenti. 	<p>Lilanga- 1</p> <p>Emaculo nemilolotelo yetinombolo</p> <p>Ithileyi/libhokisi lesanti</p> <p>Isethi yemakhadinombolo laphatsekako</p>	
1.11 Imali	<ul style="list-style-type: none"> Bona ubuye utfole imali yebuhhehlu yaseNingizimu Afrika <p>Lokuphatsekako usebentiise tintfo letingemadayimenshini lamatsatfu (3-D)</p> <ul style="list-style-type: none"> - Yenta bafundzi batu ngaelitiwane netitfombe letitfolakala emalini yebuhhehlui. - Kusetjentiswa kwemali kungasetjentiswa ekhoneni lemakhono ekuphila lapho bafundzi bangdala khona umdalo westolo. Ngekutsinta basebentisa imali yebuhhehlui leyehlukene. 	<p>Lilanga 1</p> <p>Imali yebuhhehlui 5c, 10c, 20c, 50c, R1,00, R2,00 ne R5,00 coins (imali yekudlala nobe imali mbamba)</p>	Lilanga 1

Livki 18	Sikhatsi lesiphakanyisiwe sekufundzisa: Umsebenti munye welikasi loheliwe loholwa nguThishela (tikhatsi tetifundvo) ± 30 emaminithi ngelilanga (± 5 imisebenti yetibalo ngeliviki)	
Sihloko	Emanotsi lacacisako	Tinsita letiphakanyisiwe
1.7 Kuhlanganisa nekususa	<ul style="list-style-type: none"> Kubala lokushiwu ngemilomo loktibalo tekuhlanganisa nekususa lokunetimpendvulo kufike ku-4 <p>Temlomo: Bala tintfo letisetjentiswa malanga onkhe urike ku-4. Bala uye phambili nasemuva urike ku-4 Bala ngenhloko kusukela ku 1- 7</p> <p>Gcizelela Iwati loluphatselene “nalokunyenti nalokumbalwa”</p> <p>Shaya tandla kanyenti.....MANI.</p> <p>Shaya tandla sikhatsi lesincane. Thishela ushaya tandla aphindze ka -3</p>	Budze besikhatsi lesilinganisiwe Lilanga 1
Umnyākato	<p>Tibonelo:</p> <p>Bafundzi</p> <p>Tibali</p> <p>Emapeniseli</p> <ol style="list-style-type: none"> 1. Thishela ubita umfundzi -1 ete phambili eklassini. Ubuye futsi abite labanye bafundzi la- 3. Bangaki bafundzi lababitile nangabe babonke? 2. Thishela upaka tibali le- 3. Wangeta sinye. Tingaki tibali letisetafuleni? 3. Bafundzi bema ngembikwelikasi. Thishela ucela umfundzi munye kutsi ahlale phasi. Bangaki bafundzi labaphambi kwellikasi nyalo? 4. Busi unemapeniseli la- 4. Unika Jese emapeniseli la- 2. Usele nemepenseli lamagaki Busi? 	

Livki 18	Sikhatsi lesiphakanyisiwe sekufundiza: Umsebenti munye welikiasi loheliwi loholwa nguThishela (tikhatsi tetifundvo) ± 30 emaminithi ngelilanga (± 5 imisebenti yetibalo ngeliviki)	
Sihloko	<p>Emanotsi lacacisako</p> <p>Tinsita letipakanyisiwe</p> <p>Budze besikhatsi lesilinganisiwe</p>	<p>Lilanga -1</p> <p>1.4 Chaza, ucatsanise ubuye uhole tinombolo:</p> <ul style="list-style-type: none"> Hlela ubuye ucatsanise lugcogco lwetintfo usebentise "kunyenti kuna, kuncane kuna "nakulingana na" ufiike ku-4 <p>Lokuphatsekako usebentise tintfo letingemadayimenshini lamatsattu (3-D)</p> <ul style="list-style-type: none"> Thishela uniketa lilunga ngalinye lelicembu inombolo letsite yemakhilayoni. Emalunga elicembu kufanele attole kutsi ngubaphi bafundzi labanemakhilayoni lamanyenti kunalabanye. Ngumuphi umfundzi ionemakhilayoni lamancanyana kurnalabanye? Ngubaphi bafundzi labanenombolo lefanako yemakhilayoni? <p>Lokubonakalako ungeke ukuphatse usebentisa bobuniyu labangemada-yimenshini lamabili (2-D) robe titfombe</p> <ul style="list-style-type: none"> Hlela isethi yemakhadinhombolo lefaka ekhatsi letinombolo- 1 kuye ku- 5 ngendlela lehleleke kahe sib.  <p>Emakhadi lanemacashati nenombolo</p> <ul style="list-style-type: none"> Buta imibuto lefana "nguliphi likhadi lelinetintfo/amacashati lamanyenti? Nguyiphi inombolo lenkhulu kuna-2? nill

Livki 18	<p>Sikhatsi lesiphakanyisiwe sekufundzisa: Umsebenti munye welikasi loheliwe loholwa nguThishela (tikhatsi tetifundo) ± 30 emaminithi ngelilianga (± 5 imisebenti yetibalo ngeliviki)</p>			
Sihloko	Emanotsi lacacisako	Tinsita letiphakanyisiwe	Budze besikhatsi lesilinganisiwe	Lilanga -1
2.1	<p>Emaphethini e-Jomethri</p> <ul style="list-style-type: none"> • Tsatsela ubuye ucedzele iphethini leniketiwe lenemali yebuhuheliu <p>Tsatsela iphetini leniketiwe</p> <ul style="list-style-type: none"> - Thishela wakha iphethini asebentise "imali yekudala" sib. 5c, 5c, 5c, 10c, 10c, 10c, 20c, 20c, 20c - Bafundzi: <ul style="list-style-type: none"> - Abatsatsele emaphethini lamanyentl lentiwe nguthishela. <p>Cedzela iphetini leniketiwe</p> <p>Bafundzi:</p> <ul style="list-style-type: none"> - Abacedzele emaphethini lamanyentl lentiwe nguthishela sib. <ul style="list-style-type: none"> o 5c, 5c, 10c, 10c,..... o 5c, 10c,..... o 10c, 20c.....njl 			

Liviki 19	Sikhatsi lesiphakanyisiwe sekufundzisa: Umsebentii munye weikiasi loheliwi loholwa nguThishela (tikhatsi tetifunvo) ± 30 emaminithi ngelilanga (± 5 imisehenti yetibalo ngeliviki)		
Sihloko	Emanotsi lacacisako	Tinsita letipahakanyisiwe	Budze besikhatsi lesilinganisive
1.1 Bala tintfo	<ul style="list-style-type: none"> Gcizelela Iwati loluttolakele lo lafaka tinombolo 1, 2, 3 na- 4. <p>Temiomo: Bala tintfo letisetjentiswa malanga onkhe urike ku -4. Bala uye phambili nasemuva urike ku -4 Bala ngenhloko kusukela ku 1- 7</p> <p>Gcizelela Iwati loluphatsetene “nalomkunyenti nalokumbalwa” Shaya tandia karyentii.....MANI. Shaya tandia sikhatsi lesincane.Thishela ushaya tandla aphindze ka 3.</p> <p>Umnyakato Thishela uphakamisa likhadinombolo lelinenombolo 3 bese utsi kubafundzi:</p> <ul style="list-style-type: none"> - Ngidzinga bafana belinani lelingaka. - Upifikamisa inombolo -2 atsi, ngidzinga emanitfombatane alelinani. - Entani emacembu abo (aphakamise inombolo -2). - Phindza lomsebenti ngemakhadi lafaka tinombolo 1-4 	<p>3</p>	<p>Emakhadinombolo lafaka ekhatsi tinombolo ku- 1 kuye ku- 4</p> <p>sib.</p> <p>Isethi yemakhadi lanetitfombe nemacashati lafaka ekhatsi inombolo ku-1 kuye ku-4</p>
1.16 Tibalo tenhloko	<p>Tibalo tenhloko Thishela uphakamisa likhadinombolo -3 abuye ubute bafundzi kutsi:</p> <ul style="list-style-type: none"> - Nguyiphi lenombolo ie? - Nguyiphi inombolo lefika kucala kuna ku -3? - Nguyiphi inombolo lefika ngemuva kwenombolo ku- 3? - Phindza ngetinombolo -1 kuye ku- 4 - Ningangikhomba likhadisitfombe lelinenombolo lefana naleyo yemacashati lasekhadini? 		

Liviki 19	Sikhatsi lesiphakanyisiwe sekufundzisa: Umsebenti munye weikasi loheliwe loholwa nguthishela (tikhatsi tetifunvo) ± 30 emaminithi ngelilanga (± 5 imisebenti yetibalo ngeliviki)		
Sihloko	Emanotsi lacacisako	Tinsita letipphakanyisiwe	Budze besikhatsi lesilinganisive

Lokuphatsekako usebentise tintfo letingemadayimenshini lamatsattfu (3-D)

Tibalo tenhloko

- Thishela ushaya tandla ngalokunesigci abuye atishaye kancane kute aveete inombolo. Bafundzi kufanele bataise buhlau belinanai telitsite abuye abakhombe.

sib

buhlu lobu- 4

Bafundzi ababeke buhlau 1, 2, 3 nobe 4 embikwabo.

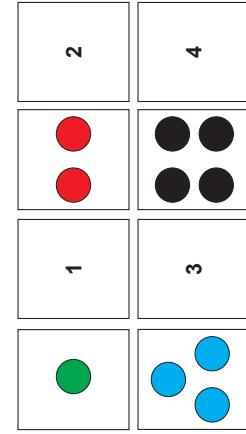
- Cela bafundzi bakhombe kutsi banebuhlu bungaki ngekucatsanisa inombolo yebuhlu babo nenombolo lefanako lekukhadinombolo sib. Buhlu bu-4 nenombolo ku- 4.

- Abatfole umfundzi lonebuhlu lobulingana nalenombolo.

Lokubonakalako ungeke ukuphatse usebentisa bobunjwa labangemada-yimenshini lamabili (2-D) nobe titfombe

Thishela uphakamisa likhadi lelinenombolo yemacashati lama- 2 abutie loku kubufundzi:

- Mangaki emacashati likulelikhadi?
- Lamacashati amele yiphi inombolo?
- Nguyiphi inombolo lelandzela lenombolo?
- Badvwebe inombolo yemacashati lalingana nalenombolo emaphepheni abo



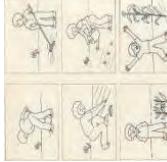
Liviki 19	Sikhatsi lesiphakanyisiwe sekufundzisa: Umsebentii munye weikiasi loheliwi loholwa nguthishela (tikhatsi tetifundvo) ± 30 emaminithi ngelilanga (± 5 imisehenti yetibalo ngeliviki)		
Sihloko	<p>1.7 Kuhlanganisa nekususa</p> <p>Umnyakato</p> <ul style="list-style-type: none"> Kubala lokushiwu ngemlomo lokutibalo tekuhlanganisa nekususa <p>Bita bafundzi ia- 3 bete phambili. Babale</p> <p>- Bita lomunye umfundzi -1.' Mangaki onkhe? Ku-3 na- 1→4 (kutsatu nakunye kwenta -4)</p> <p>- Jikisa bafundzi la-3 babuyele ekhaphethini. Bangaki bafundzi labasele nyalo? 4 ususe 3→1</p> <p>Hlukanisa bafundzi ngemacembu.</p> <p>Buta imibuto njengalena:</p> <ul style="list-style-type: none"> Tingaki timphumulo lotibona ecenjini lakho? Mingaki imilomo? Mingaki imitimba? Mangaki emehlo emkhatsini webafundzi lababili? Mingaki imilente emkhatsini webafundzi lababili? 	<p>Emanotsi lacacisako</p> <p>Tinsita letiphakanyisiwe</p> <p>Budze besikhatsi lesilinganisive</p> <p>Lilanga- 1</p>	<p>Tibali</p> <p>Sebentisa tinsita letinlhobonhlobo kute ube nemcondvo wekutsi tindielanchubo letehlukene ungatisebentisa njani.</p>

Lokuphatsekako usebentise tintfo lettingemadaiyimenshi lamatsattu (3-D)

Tibonelo:

1. Babe waLindiwe unemoto.imoto yakhe inamangaki emasondvo?
2. Nangabe lisondvo -1 lipontjile emotweni bese liyakhishwa, isala namangaki emasondvo?
3. Sikhukhukati sinemantjivele la- 4. Emantjivele lamabili alahleke. Sitawusala namangaki emantjivele?
4. Lesikhukhukati siwattoile emanantjivele aso lamabili lebekalahlekile. Sesinamangaki emantjivele nyalo?

Liviki 19	Sikhatsi lesiphakanyisiwe sekufundzisa: Umsebentii munye weikiasi loheliwe loholwa nguThishela (tikhatsi tetifuncvo) ± 30 emaminithi ngelilanga (± 5 imisehenti yetibalo ngeliviki)		
Sihloko	Emanotsi lacacisako	Tinsita letipahakanyisiwe	Budze besikhatsi lesilinganisive
1.4 Chaza, ucatsanise ubuye uhlele tinombolo	<ul style="list-style-type: none"> Hlela ubuye ucatsanise lugcogco lwestintfo “kunyentii kuna, “Kuncane kuna” “nakulingana na” kuye ku-4 Umnyakato <ul style="list-style-type: none"> - Thishela ubeka tintfo letehlukahlukene etafuleni siboneeo, emakhilayoni la -2, emabhuloku la -4, tikotela le-3, emabhuloku la -2. <p>Bafundzi:</p> <ul style="list-style-type: none"> - Babala inombolo yemakhilayoni netikotela. Akhona yini emakhilayoni lamanyenti nobe emathini lamanyenti? - Bala inombolo yemabhuloki nemabhuluki. Ngabe kunemabhuloki lamancane kunemabhuluki? Ngabe kunemabhuloki lamanyenti kunemabhuluki? - Bala emabhuluki nemakhilayoni. Ngabe kuneintifo letilinganako nobe cha? <p>Lokuphatsekako usebentise tintfo letingemadayimenshini lamatsattfu (3-D)</p> <ul style="list-style-type: none"> - Bafundzi abahale ekhaphethini abuye anike umfundzi ngamunye linani letitsite letibali. - Umfundzi ngamunye utawutfolia inombolo yetibali lengalingani neyalabanye. - Bafundzi babeka tibali phambi kwabo. Thishela ubuta bafundzi loku: <ul style="list-style-type: none"> o Ngubani lonetibali letinyenti kakhulu? o Ngubani lonetibali letincane kakhulu? o Ngubaphi bafundzi labanetibali letilinganako? 	<p>Tinsita letipahakanyisiwe</p> <p>Emakhilayoni, emabhuloku, tikotela,</p> <p>Tibali</p> <p>Thishela unika umfundzi ngamunye inombolo leyehlukile yetibali kufike ku- 4</p>	Lilanga -1
3.3 Bobunjwa labangemada-yimenshini lamabili(2-D)	<ul style="list-style-type: none"> Bona, utole ubuye unike bobunjwa labangemada-yimenshini lamabili (2-D) eklasini nettombé Yenta ubuye ucedzele emaphazili (hlanganisa nebuciko bekubuka wente) <p>Bafundzi:</p> <ul style="list-style-type: none"> - Badwweba sittombé ephepheni le- A4. - Thishela udwweba imiga ngemuva kwemidwwebo yebafundzi. - Umfundzi ujuba sittombe sakhe ahambise emigceni ledwjetjiwe. - Umfundzi ucedzela/wakha iphazili yakhe. 	 <p>Imidwwebo yebafundzi</p>	Lilanga -1

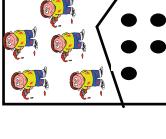
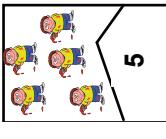
Liviki 19	Sikhatsi lesiphakanyisiwe sekufundzisa: Umsebentii munye weiklasi loheliwe loholwa nguthishela (tikhatsi tefifuncvo) ± 30 emaminithi ngelilanga (± 5 imisehenti yetibalo ngeliviki)		
Sihloko	Emanotsi lacacisako	Tinsita letipphakanyisive	Budze besikhatsi lesilinganisive
4.1 Sikhatsi	<ul style="list-style-type: none"> Tifufukisa Iwati Iwekutsi i kwentekani emkhatsini wesikhatsi sekudla nesikhatsi sekulala (hilanganisa nesihloko selwati lwekucala lesikumakhono ekuphila) <p>Bafundzi:</p> <ul style="list-style-type: none"> - Bacoca ngalabakwenta ngemuva kwekudla kudla kwantsambama. - Bacoca ngalokwenteka emakhaya ngemuva kwekudla. <p>Thishela uyabuta:</p> <ul style="list-style-type: none"> - “Ngabe esikoleni ufika ekuseni nobe ntsambama?” - Nangabe Pele afika insimbi seyistayile esikoleni, ngabe Pele ufike ngesikhatsi nobe ngemuva kwesikhatsi esikoleni? - Likuphi lilanga ebusuku?” <p>Lokubonakalako ungeke ukuphatse usebentisa bobunjiwa labangemada-yimenshini lamabili (2-D) nobe titfombe</p> <ul style="list-style-type: none"> - Bafundzi badywiba sitfombe kukhombisa nobe yini leyenteke emva kwesidlo santsambama. - Nikha emaphazili lakhombisa kulandzelana kwetigameko 	 	Lilanga -1

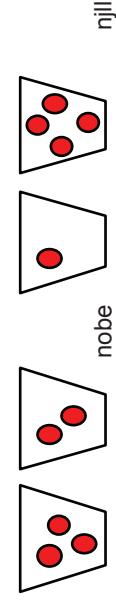
Liviki 20	Sebentisa Liviki le 20 kusebenta ngebulukhuni betintfo na/nobe utfole loko lokutihibe ekufundzeni.
Lokucukettwe	Sihloko
Tinombolo, timphawu tekubala nebudelewane	<p>1.1 Bala tintfo</p> <p>Combela ubuye ubale ngenhloko ufile ku -7 (emaculo tetinombolo nemilolotelo lokufakka ekhatsi kuttufukisa lwati lwetinombolo)</p> <p>Ubala aye-emuva naphambili(1-4)</p> <p>Uvisisa lamagama "kunyenti nakuncane" (shaya tanda)</p> <p>Ubona tinombolo kungcikitsi leyetayelekile-sib. Inombolo yendlu, incwadzi yemakhei</p> <p>Ubona tifombe tetinombolo nemakhadi emacashati</p> <p>Kwati tinombolo 1, 2, 3,4</p> <p>Ubona emagama etinombolo kubili, kutsaffu na kune</p> <p>Uvisisa kucondzana kwalokunye kulokunye (Basiti bayacosisana ngesikhatsi sekudla)</p> <p>Hlukanisa emkhatsini wa kunyenti, kuncane na kuyalingana, kunyenti na kuncane kuye ku -4</p> <p>ubona imali yebuhhehlu yase-Ningizimu Afrika ngekwehlu kana kwayo</p>
Emaphethini nemafangishini	<p>1.6</p> <p>Emasu ekusombulula tinkinga tekubala</p> <p>1.7 ne - 13</p> <p>kuhlanganisa nekususa</p> <p>2.1</p> <p>Emaphethini e-Jomethri</p>
Sikhala nabunjwa	<p>3.1</p> <p>Kubekeka, kutetayeta nekubukeka</p> <p>3.2</p> <p>Bobunjwa labangemada-yimenshini lamabili (2-D)</p>
	<p>Uvisisa kubekeka kwetintfo letimbili nobe letinyentii macondzana nemfundzi ngetulu, ngaphasi</p> <p>Kwakha lokungenani tincetu leti 12 tephazili</p> <p>Ukhombisa likhono lekuhluhanisa "lingemuva nelingembili letintfo" (phindza uhole)</p> <p>Uvisisa kwakheka kwacalantsaffu (kugcineka kwabunjiwa)</p> <p>Kubona, utfole ubuye usho localantsaffu</p> <p>Uvisisa kwakheka kwacalantsaffu(kugcineka kwabunjiwa)</p>

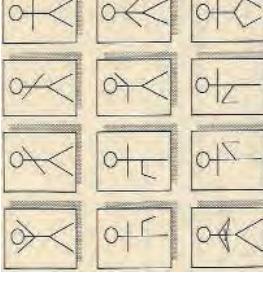
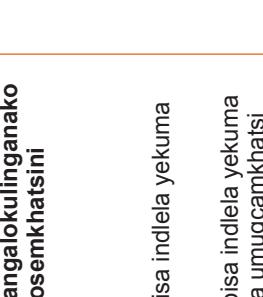
Liviki 20	Sebentisa Liviki le 20 kusebenta ngebulukhuni betintfo na/nobe utfole loko lokutihibe ekufundzeni.	
Lokucukettwe	Sihloko	Ungomo wekuhlola
Sikhala nabunjwa	Tintfo letingemadayimenshini lamatsattu (3-D)	ucatsanisa kutsi ngukuphi kwaletinto letimbili letigcogiwe taniketwa letindze letindze kahulu, letimfishai/letimfishia kakhulu Uhlunga tintfo nge: isayizi -budze nebufisha imibala - (kubovu, kumtubi, kuhuhlata kwsibshakabhabaka nakuluhlata) bobunjwa Tfola ngemabhuloki ekwakha
	3.4 Kubona umugca lohlukanisa emkhatsini ngalokufanako nangalokulinganako:	Ubona umugca lohlukanisa emkhatsini ngalokufanako nangalokulinganako kuwe nasendzaweni yakhko Bakhona kwengca umugca-losemkhatsi Kuvisia kubekeka kwetintfo letimbili nobe letinyenti mayelana nemfundzi- ngetulu, ngephasi.
Silinganiso	4.1 Sikhatsi	Kuvisia emalanga elivki, tikhatsi temnyaka nelishadi lesimo seitulu (Emaculo nemilolotele-phindza uhole) Kwati lusuku lwakho lwekutalwa (phindza uhole)
	4.2 Budze	Kuhluhanisa emkhatsini wa lokudze kakhulu, lokufisna kakhulu. lokudze, lokufisha (ishadi lebude)
Kusebenta Ngedadtha	5.1 Gcogca ubuye uhlunge idatha	Ukrona kuggogca, kuhlunga, kudvweba, kufundza nekuveta (hatiya) tintfo ngebunjalao bato.
	5.2 Veta tintfo letigcogcwe tahlungwa	
	5.3 Chaza ubuye ubike ngetintfo letigcogcwe tahlungwa	

TIBALO TELIBANGA R ITHEMU 3					
Livki 21	Sikhatsi lesiphakanyisive sekufundiza: Umsebenti munye weliklasi loheliwe lohola wa nguthishela (tikhatsi tekufundza) emaminithi ± 30 ngelilanga (± 5 Imisebenti ye Tibalo ngeliviki)				
Sihloko	Emanotsi lacacisako	Tinsita letiphakanyisive	Budze besikhatsi lesilingansiwé		
1.1 Bala tintfo	<ul style="list-style-type: none"> Negenisa inshokutsi yenombolo- 5. <p>Temlomo: Bala tintfo letisetjentiswa malanga onkheonke kuye ku- 5. Bala uye phambili nasemuva kuye ku- 5. Bala ngenhloko 1-10</p> <p>Gcizelela kuhleleka kwetinombolo: Bothishale upaka tintfo letintsaftu emggeni. Khomba entfweni yinye ngesikhatsi ubala kwekuçala, kwestibili, kwestisatifu.</p> <p>Gcizelela Iwati oluphatselene “nalomkumbalwa” Shaya tanda kanyenti.....MANI. Shaya tanda sikhatsi lesincane. Thishela ushaya tanda aphindze ka- 5. Buta kutsi ngutiphi tanda letishaywe kanyenti/ kancane</p> <p>Umnyakato Khutsata bafundzi kutsi babone inombolo -5 nge: <ul style="list-style-type: none"> Kushaya tanda ka- 5. Kuffola kutsi bangaki bafundzi eklassini labaneminyaka le -5. </p>	<p>Emaculo tetinombolo nemilotolo Imilotolo yekubala neemaculo sib. "Tingobiyane letisihlanu tizupha embhedeni".</p> <p>Tintfo le- 3</p>	Lilanga -1		

Liviki 21	Sikhatsi lesiphakanyisiwe sekufundzisa: Umsebenti munye weliklasi loheliwe loholwa nguthishela (tikhatsi tekufundza) emaminithi ± 30 ngelilanga (± 5 imisebenti ye Tibalo ngeliviki)	Budze besikhatsi lesilinganisiwe
Sihloko	Emanotsi lacacisako	Tinsita letiphakanyisiwe
1.16	Tibalo tenhloko <ul style="list-style-type: none"> - Thishela ushaya tandla takhe ngalokunesigci abuye atishaye kanoane kuveta inombolo sib. -5. Umfundzi kumele akhiphe inombolo yetibali lelingana ne (5) abuye abuye alikhombise. - Bafundzi bapaka tibali leti -5 emgceni babuyē batibali. - Thishela ubuta loku: - Nguyiphi inombolo lefika ngembi kwe- 5? - Nguyiphi lefika ngemuva kwe- 4 njll. - Nangabe unemahhabhula la- 5 abuye alahle emahhabhula la. Utawusala namangaki emahhabhula? - Ngikhombe tingalo le -5. - Unatingaki tintwane eyaweni -1? 	<p>Tibali letisentfweni yekuphatsa</p> <p>Lilanga -1</p>

Liviki 21	Sikhatsi i esiphakanyisiwe sekufundzisa: Umsebenti munye welikiasi loheliwe lohola wa nguthishela (tikhatsi tekufundza) emaminithi ± 30 ngellanga (± 5 imisebenti ye Tibalo ngeliviki)	Budze besikhatsi lesilinganisiwe
Sihoko	<p>1.4 Chaza, ucatsanise ubuye uhole tinombolo</p> <p>Emanotsi lacacisako</p> <p>Tinsita letiphakanyisiwe</p> <p>Lilanga -1</p> <ul style="list-style-type: none"> Tifutukisa kufundza ngenhloko ubuye ukhutsate bafundzi kutsi bati inombolo yendlu yakubo, likheli nenombolo yelucingo lwakubo ngenhloko <p>Dlala imidialo lefana na:</p> <ul style="list-style-type: none"> - Thishela usho inombolo yendlu, likheli nobe inombolo yelucingo yemfundzi. Umfundzi lowo lokuyinombolo nobe likheli lakhe kumele aphendvile. - Nangabe kugcwaliswa irejista yalabakhona yishelia angabuta imibuto lefana: "Ukhona yini umfundzi ionenombolo yelucingo 435-6256 namuhla?" "Ukhona yini umfundzi lohala elMandela Drive 123 namuhla?" - Bafundzi basebentisa emakhadi lanetinombolo kupaka inombolo yetindlu nobe inombolo yelucingo ngekulandzelana nanobe kungrteki kahe. - Kulingisa umdhalo wekuocisana ecingweni lekudlala. Umfundzi ufonela umuntfu lobalulekile. <p>Hlanganisa ne buciko bekuticambela (umdalao) tuabwe Makhono Ekuphila</p> <p>Lokubonakalako ungeke ukuphatse usebentisa bobunjiva labangemada-yimenshini lamabili (2-D) nobe tifombe</p> <p>Thishela ukhomba bafundzi:</p> <ul style="list-style-type: none"> - Tinhlobo letahlukene tetinsita lapho angatfolaa khona inombolo -5 sib. Emakhadi elusuku lwekutalwa, emaphephandzaba, bomagazini, emaflaya, njill. - Likhadi lelinemacashati la- 5 nelikhadi lelinetifombe le- 5. - Yenta bafundzi bacatsanise likhadi letifombe nemakhadi emacashati nangenombolo lefananako yetibali nobe. - Yenta iphazili yetinombolo lefaka ekhatsi inombolo -5 e.g. <p>Budze besikhatsi lesilinganisiwe</p> <p>Lilanga -1</p> <p>Tinsita letiphakanyisiwe</p> <p>Budze besikhatsi lesilinganisiwe</p> <p>Lilanga -1</p> <p>Lenombolo yelucingo kufanele kub yinombolo yekuchumana nebatati nobe umbhasobhi kantsi futsi kungaba inombolo yamakhalekhikhini</p> <p>Irejista yalabakhona</p> <p>Likhadinombolo nobe inombolo lenkhulu lebhawle kukhadi bhodi</p> <p>Lucingo lwekudlala</p> <p>Emakhadi elusuku lwekutalwa Emaphephandzaba, emaphephabbukui</p> <p>Emakhadi lanemacashati la- 5</p> <p>Emakhadi lanetifombe le- 5</p> <p>Tintfo</p> <p>Tibali</p> <p>Slitombe setintio le -5</p> <p>Slitombe setintio le -5</p>	<p>Timi</p>  <p>5</p> 

Liviki 21	Sikhatsi i esiphakanyisiwe sekufundzisa: Umsebenti munye welikasi loheliwe loholwa nguthishela (tikhatsi tekufundza) emaminithi ± 30 ngelilanga (± 5 imisebenti ye Tibalo ngeliviki)	
Sihloko	Emanotsi i lacacisako	Tinsita letiphakanyisiwe Budze besikhatsi lesilinganisiwe
1.3 Timphawu nemagama etinombolo	<p>• Kwati inombolo nekubona ligama lenombolo lafaka ekhatsi inombolo -5</p> <p>Temlomo: Bala tintfo letisetijentiswa malanga onkheonkhe kuye ku- 5 Bala uye phambili nasemuva kuye ku -5. Bala ngenhloko 1-10</p> <p>Umnyakato</p> <ul style="list-style-type: none"> - Liklasi lonkhe alihlale lente indiliinga. - Hlela bantfwanana ngetinombolo balandzele lephethini. 1, 2, 3, 4, 5, 1, 2, 3, 4, 5, - Buta imibuto lefana na; "Ngubani lotakuba yinombolo lelandzelako 5? "Ngubani lotakuba yinombolo lelandzelako -4? - Uycatulue njani lenkinga? - (Bafundzi bacatulua lenkinga ngendlela yekwenta yekucombela inombolo lelandzelako ngekubala uchubekete embili) <p>Lokuphatsekako usebentisa tintfo letingemadimenshini lamatsattu (3-D)</p> <ul style="list-style-type: none"> - Sebentisa emakhaditinombolo lafaka ekhatsi tinombolo -1 kuye ku-5. - Bafundzi bavala emehlo abo babuye batsintsie inombolo lemele sihlau ngetingalo tabo emkhatsini waletinye tinombolo. <p>Niketa bafundzi tibali le -5 ngamunye netinkhomishi tepulastiki letimbili nobe tintfo letiphaisa emacanda.</p> <ul style="list-style-type: none"> - Buta bafundzi: "tingaki tindela letahukene longahlela ngato letibali tibe kubo bhasikidi lababili?" 	Lilanga -1

Liviki 21	Sikhatsi lesiphakanyisive sekufundzisa: Umsebenti munye wellikasi loheliwe lohovwa nguTishela (tikhatsi tekufundza) emaminithi ± 30 ngelilanga (± 5 Imisebenti yetibalo ngeliviki)	Budze besikhatsi lesilinganisiwe
1.3 Timpawu nemagama ethnombolo	Emanotsi lacacisako Lokubonakalako ungeke ukuphatse usebentisa bobunjiwa labangemada- yimenshini lamabili (2-D) nobe tittombe Bafundzi ba: <ul style="list-style-type: none"> - Babona ifleshikhadi lelinettifombe le -5. - Babona ifleshikhadi lelinemacashati la - 5. - Babona inombolo 5 lebekwe nope ngakuphi eklasini. - Babona inombolo 5 lebekwe nope ngakuphi eklasini. - Babona ligama lenombolo lelise fleshikhadini. - Bacatsanisa inombolo yetibali neligama leninombolo nenombolo ngekupaka sibali esitombeni nelikhadi lemakashati ngalinye. 	Tinsita letiphakanyisive Emafleshikhadi lanetitfombe, inombolo neligama lenombolo - 5 Tintfo longatibona loneke utibambe  Siftombe setinto le -5 Sihlanu
3.4 Umugca lohlukanisa emkhatsini kulingane kufanane	Umnyakato Giczelela umugca lohlukanisa emkhatsini ngalokufanako nangalokulinganako kuwe ngekwenta umnyakato lokhutsata kwengca umugca losemkhatsini Bafundzi: <ul style="list-style-type: none"> - Badlala umdlalo "wekulandzela umholi" lapho bafundzi balingissa indleta yekuma leseshadini. - Badlala umdlalo "wekulandzela umholi" lapho tishela akhombisa indleta yekuma bese bafundzi. (faka ekhatsi iminyakato lapho bafundzi bengca umugcamkhatsi sib. Bambo lidvolo lesekudla ngesandla sesancele) - Badlala umdlalo "wekulandzela umholi" lapho umfundzi akhombisa indleta yekuma bese bonkhe lababanye bayalingisa. - Tishela ukhombisa "kuzuba sankanyeti" abuye akhutsate bafundzi kwekkutsi bente umnyakato lofanako 	Lilanga 1 Ngenuyakwaloko ngalokuchubekako ngesikhatsi sekudala lesikhulelekile nangemisebenti yekukhulisa umtimba 
	Lokuphatsekako usebentisa tintfo letingemadayimenshini lamatsatu (3-D) bafundzi: <ul style="list-style-type: none"> - Babeka ibhinibhegi eseabuncle, esekudla, ngaphambili nangemuva kwemtimba wakhe. - Basebentisa sandla sakhe sebuncle ubuye ubeke ibhinibhegi ehlangotsini lesekudla lemtimba wakhe. - batelule bengce umugca losemkhatsini. - Baphindza umnyakato ngesandla sekudla. 	Lilanga 1 Ngenuyakwaloko ngalokuchubekako ngesikhatsi sekudala lesikhulelekile nangemisebenti yekukhulisa umtimba

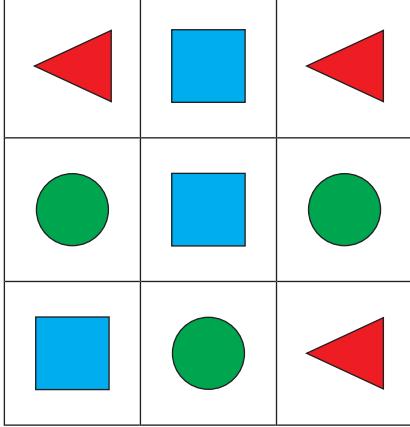
Liviki 21	Sikhatsi lesiphakanyisiwe sekufundzisa: Umsebenti munye weliklasi loheliwe loholwa nguThishela (tikhatsi tekufundza) emaminithi ± 30 ngelilanga (± 5 imisebenti yeTibalo ngeliviki)	
Sihloko	Emanotsi lacacsako	Budze besikhatsi lesilinganisiwe
4.2 Budze	<p>• Combela ubuye ukale budze betintfo letehlukena usebentise tnyawo, tandia, siceshana sentsambo, indvuku njil.</p> <p>Umnyakato</p> <p>Bafundzi:</p> <ul style="list-style-type: none"> - Bacatsanisa budze betintnyawo netandla tabo. - Bafundzi bacombela kutsi nguyiphi intfo lendze nekutsi nguyiphi lemfisha ngekuwakala ngetintnyawo nobe ngetandla tabo sib. Litafula nobe incenye yeliphayiphi lephukile lochamuke nayo ekhaya. - Bacombela kutsi nguyiphi intfo lendze kakhulu nobe lemfisha kakhulu sib. Sinyatselo nobe umugca wetitini. - Bafundzi abacombele kutsi ngukuphi lokutakuba kudze sib. Likiasi nobe lihovisi labothishela? - Buta umbuto lofana na: “ngukuphi lokudze/okudze kakhulu, ipeniseli nobe siceshana sentsambo?” njil. 	<p>Tinsita letiphakanyisiwe</p> <p>Tintfo letinebudze lobuhulkene lokungakalwa ngesandla nobe lnyawo sib.</p> <p>Irlua, litafula, umnyango, umugca wetitini, lipali linye lebhola yetintyawo, likasi, umtombolwati, njil.</p> <p>Lilanga -1</p>

<p>Liviki 22</p> <p>Sikhatsi lesiphakanyisiwe sekufundzisa: Umsebenti munye welikiasi loheliwe loholwa nguThishela (tikhatsi tekufundza) emaminithi ± 30 ngelilanga (± 5 Imisebenti yetibalo ngeliviki)</p>	<p>Sihloko</p> <p>1.1</p> <p>Bala tintfo</p>	<p>Emanotsi lacacisako</p> <ul style="list-style-type: none"> Gcizelela Iwati lolutfoliwe loluraka ekhatsi inombolo -5 <p>Temlomo: Bala tintfo letisetjentiswa malanga onkheonkhe kuye ku- 5. Bala uye phambili nasemuva kuye ku- 5. Bala ngenhloko 1-10</p> <p>Gcizelela Iwati loluphatsetene “nalomkunyenti nalokumbalwa”</p> <p>Shaya tanda kanyentii.....MANI.</p> <p>Shaya tanda sikhatsi lesincone.Thishela ushaya tanda aphindze ka-5.</p> <p>Buta kutsi ngutiphi tanda letishaywe kanyentii/ kancane</p> <p>Umnyakato</p> <p>Khutsata bafundzi kutsi babone inombolo- 5 nge:</p> <ul style="list-style-type: none"> - Kukhombisa iminwe le- 5 emoyeni. - Kutfolo tintfo le -5 leti bovu, letiuhlata kwesibhakabbaka, letiphuti, letiuhlata. - Kutfolo tintfo le -5 letibukeka njengedilinga, sikwele, calantsatfu. <p>Lokuphatsekako usebenti sa tintfo letingemadayimenshini lamatsatfu (3-D)</p> <p>Bafundzi abaffutukise Iwati lwetinombolo nge:</p> <ul style="list-style-type: none"> - Kutsatsa emabhuiku la 5 ekhoneni lemabhuiku - Kwakha sakhiwo lesidze kakhulu ngemakhiyubhi eyunifikii la 5 nobe titini tekwakha. 	<p>Tinsita letiphakanyisiwe</p> <p>Netinombolo temaculo nemiolotelo</p> <p>Sib. Imililotelo yekubala netingoma sib. “1,2,3,4,5 ngaze ngabamba inhlati iphilu”</p> <p>Tibali</p> <p>Emabhuiku</p> <p>Emabhuuki ekwakha nobe emakhiyubhi langakahlangani</p>	<p>Budze besikhatsi lesilinganisiwe</p> <p>Lilanga -1</p>
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Liviki 22	Sikhatsi lesiphakanyisiwe sekufundzisa: Umsebentii munye wellikasi loheliwi loholwa nguthishela (tikhatsi tekufundza) emaminithi ± 30 ngelilanga (± 5 imisebenti yetibalo ngeliviki)		
Sihloko	Emanotsi lacacisako	Tinsita letiphakanyisiwe	Budze besikhatsi lesilinganisiwe
1.7 Kuhlanganisa nekususa	<ul style="list-style-type: none"> Sombulula tinhinga tetibalo ngemromo (tibalo tetindzaba) ubuye uchaze tisombululo takho kuletingkinga tetibalo letifaka ekhatsi inombolo -5 <p>Umnyakato</p> <ul style="list-style-type: none"> Bita bafundzi ia -5 bete phambili. Sebentisa tikhwama le- 5. Yaba titulo ngalokulinganako emkhatsini walabo labasihlanu. Susa situlo sinye. Nyalo aba letitulo kulabo labasihlanu. Munye umfundzi usala angenaso situlo. Cala ku -5. Bala uye enuva. Cala ku- 3. Bala ufiye ku -5. Cala ku- 1. Bala kuye ku -4 njil. <p>Lokubambekako usebentise tintfo te Imadaiyimensehini lamatsattu (3-D)</p> <p>Tibonelo:</p> <ol style="list-style-type: none"> Khombisa umuno -1 esandleni sakho sinye neminwe lemme kulesinye sandla sakho. Mingaki iminwe nangabe ihlangene? Sam unemakkokisi -4. Mpfo umupha lelinye- 1. Unamangaki emakkokisi Sam u-ma aphelie? Tiny unematije ia- 5 ubuye unikete onkhe ematije ia- 5 ku Mia. Unamangaki ematije Mia? Jan unemamatubuli ia -5 wase ulahlekelwa ngu -2. Usele namangaki emamatubuli? Likati linye linetindlebe letimbili. Emakati lamabili anetindlebe letengaki? Liculoo, “emabhodlela laluhlata lasihlanu lalengiswe ebondzeni, lagcina ngelicandza” (shano kutsi lamabhodlela ayancipha ngesibalo). 	Lilanga -1	

Liviki 22	Sikhatsi lesiphakanyisiwe sekufundzisa: Umsebenti munye welikiasi loheliwi loholwa nguThishela (tikhatsi tekufundza) emaminithi ± 30 ngelilanga (± 5 Imisebenti yetibalo ngeliviki)		
Sihloko	<p>Emanotsi lacacisako</p> <ul style="list-style-type: none"> Catsanisa kutsi ngutiphi tintfo letigcogiwe letiniketive letimbili letinyenti kuna, letincane kuna, kulingana na, kute kufike kunombolo- 5 <p>Temlomo: Bala tintfo letisetijentiswa malanga onkheonke kuye ku- 5. Bala uye phambili nasemuva kuye ku -5.</p> <p>Bala ngenhloko 1-10</p> <p>Gcizelela lwati loluphatsetene “nalomkunyenti nalokumbalwa”</p> <p>Shaya tandla kanyenti.....MANI.</p> <p>Shaya tandla sikhatsi lesincane.Thishela ushaya tandla aphindze ka- 5.</p> <p>Buta kutsi ngutiphi tandla letishaywe kanyenti/ kancane</p> <p>Umnyakato</p> <ul style="list-style-type: none"> Thishela ubeka tintfo letehlukahlukena etafuleni, sibonelo, tinkomishi -2, le -5 letinemabhuoli lafananako, tikotela- 4, emabhuksu -2. <p>Bafundzi:</p> <ul style="list-style-type: none"> Ababale linani letinkomishi netikotela. Kukhona yini lokunyenti, ngabe tinkomishi nobe tikotela ? Bala linani yemabhuoli nemabhuku. Kukhona yini lokuncane, ngabe emabhuoli nobe emabhuksu? Ngabe kunemabhuoli lamancane kunemabhuksu? Ngabe kunemabhuoli lamanyenti kunemabhuksu? Babala emabhuksu netinkomishi. Ngabe kunelinani letintfo letilingaanako nobe cha? 	<p>Lilanga 1</p> <p>Budze besikhatsi lesilinganisiwe</p>	
1.4 Chaza, ucatsanise ubuye uhlele tinombolo	<p>Emanotsi lacacisako</p> <ul style="list-style-type: none"> Catsanisa kutsi ngutiphi tintfo letigcogiwe letiniketive letimbili letinyenti kuna, letincane kuna, kulingana na, kute kufike kunombolo- 5 <p>Temlomo: Bala tintfo letisetijentiswa malanga onkheonke kuye ku- 5. Bala uye phambili nasemuva kuye ku -5.</p> <p>Bala ngenhloko 1-10</p> <p>Gcizelela lwati loluphatsetene “nalomkunyenti nalokumbalwa”</p> <p>Shaya tandla kanyenti.....MANI.</p> <p>Shaya tandla sikhatsi lesincane.Thishela ushaya tandla aphindze ka- 5.</p> <p>Buta kutsi ngutiphi tandla letishaywe kanyenti/ kancane</p> <p>Umnyakato</p> <ul style="list-style-type: none"> Thishela ubeka tintfo letehlukahlukena etafuleni, sibonelo, tinkomishi -2, le -5 letinemabhuoli lafananako, tikotela- 4, emabhuksu -2. <p>Bafundzi:</p> <ul style="list-style-type: none"> Ababale linani letinkomishi netikotela. Kukhona yini lokunyenti, ngabe tinkomishi nobe tikotela ? Bala linani yemabhuoli nemabhuksu. Kukhona yini lokuncane, ngabe emabhuoli nobe emabhuksu? Ngabe kunemabhuoli lamancane kunemabhuksu? Ngabe kunemabhuoli lamanyenti kunemabhuksu? Babala emabhuksu netinkomishi. Ngabe kunelinani letintfo letilingaanako nobe cha? <p>Lokuphatsekako usebenta tintfo letingemadayimenshini lamatsattfu (3-D)</p> <ul style="list-style-type: none"> Bafundzi bahala ekhaphethini bese benta tikhahle letimbili ngensontso Thishela uniketa sicondziso sib. Bafundzi babeka tibali -2 esikkeheleni sinye abuye ufake -3 kulesinye sikhahle. Ngusiphi sikhahle lesinakunyenti? Ngusiphi sikhahle lesinakuncane? Thishela ubita bafundzi la -5 kutsi bête phambili. Ubeka inombolo yebuhhalu lehlukene etandleni tebfundzi ngamunye. Ngusiphi sandla lesinakunyenti? Ngusiphi sandla lesinakuncane? 	<p>Ticeshana letimbili tensontso umfundzi ngamunye</p> <p>tibali leti 6 umfundzi ngamunye</p>	

Liviki 22	Sikhatsi lesiphakanyisiwe sekufundzisa: Umsebenti munye welikiasi loheliwi loholwa nguThishela (tikhatsti tekufundza) emaminithi ± 30 ngelilanga (± 5 imisebenti yetibalo ngeliviki)		
Sihloko	Emanotsi lacacisako	Tinsita letiphakanyisiwe	Budze besikhatsi lesilinganisiwe
1.4 Chaza, ucatsanise ubuye uhole tinombolo	<p>Lokubonakaloko ungeke ukuphatse usebentiisa bobunjiwa labangemada-yimenshini lamabili (2-D) nope titfombe</p> <ul style="list-style-type: none"> - Thishela ukhombisa emakhadi lamabili lanemacashati netifombe lehlukene. - Bafundzi abacatsanise emakhadi netifombe bese bentu emacashati kuto babuye batfole lwaiti loku "nyenti kuna", "lokuncane kuna" na "lokulingana na". <p>• Gcizelela kutsatsela iphethini leniketiwe</p> <p>Umnyakato</p> <ul style="list-style-type: none"> - Kusebenta ngemacembu bese nitsatsela iphethini leniketiwe sib. Umfundzi, situlo, Umfundzi, situlo - Bafundzi lababili, situlo sinye, bafundzi lababili, situlo sinye. - Gidza ngelunyawo lunye, gidza ngadolunye lunyawo, zupha uye phambili, zuba uye emuva 	Buhala	Lilanga 1
2.1 Emaphethini e-Jomethri	<p>Lokuphatsekako usebentiisa tintfo lettingemadayimenshini lamatsattu (3-D)</p> <ul style="list-style-type: none"> - Thishela utentela emaphethini asebentsa tibali netimbyonyo temabhdolela sib. tibali, tibali, timbonyo temabhdolela, tibali, tibali, timbonyo temabhdolela. Bafundzi batsatsela lephethini. - Hamba kancane, kancane, ngekusheshisa. (Thishela ukhuluma abe ahamba) bafundzi batsatsela iphethini. <p>Lokubonakaloko ungeke ukuphatse usebentiisa bobunjiwa labangemada-yimenshini lamabili (2-D) nope titfombe</p> <ul style="list-style-type: none"> - Hlukanisa bafundzi ngemacembu lasihlanu. Niketa licembu ngalinye titfombe tekwenta emaphethini. - Bafundzi batakhele emaphethini etitfombe basebentisa titfombe lebaniketwe tona sib. <ul style="list-style-type: none"> ○ liwolintji, lihabbhula, lihabbhula, liwolintji. ○ luvivane, luvivane, inyosi, inyosi. 	<p>Bafundzi Titulo</p> <p>Tibali Timbonyo temabhdolela</p> <p>Nobengutiphi titfombe letikhona sib. Dublikhettha titfombe kute ucinisekise kutsi unaletanale.</p>	Lilanga -1

Liviki 22	Sikhatsi lesiphakanyisiwe sekufundzisa: Umsebenti munye weiliiasi loheliwe loholwa nguthishela (tikhatsti tekufundza) emaminithi ± 30 ngelilanga (± 5 imisebenti yetibalo ngeliviki)	Emanotsi lacacisako	Tinsita letiphakanyisiwe	Budze besikhatsi lesilinganisiwe
Sihloko	<p>3.3 Bobunjwa labangemada-yimenshini lamabili (2-D)</p> <ul style="list-style-type: none"> Gcizelela lwati lolutfolwe evikini le-6 lolufaka ekhatsi sikkwe <p>Hlanganisa neSifundvo Sekutivocavoca lesikuMakhono Ekuphila</p> <p>Umnyakato</p> <ul style="list-style-type: none"> Dyweba sikkwele enkhundleni yekudlala bese uvumela bafundzi kutsi bazuphe eceleni kwesikwele. Bafundzi abasti: "ngizuba ecleni nesikwele– licala linye, emacala lamabili, emacala lamatsattu, emacala lamane-onkhe emacala nekuufana" Bafundzi bagobela inhloko etintwaneni eljanini/ phasi/ekhaphethini kwakha sikkwele lesikhulu. Emacembu ebafundzi awalale phasi ekhaphethini bese enta tikwele letincane. 	<p>Bona, tfola ubuye unike emagama abobunjwa labangemadayimenshini lamabili (2-D) eklassini nasesitfombeni</p>	<p>Sikwele esiyiweni/ phasi</p>	<p>Lilanga 1</p>

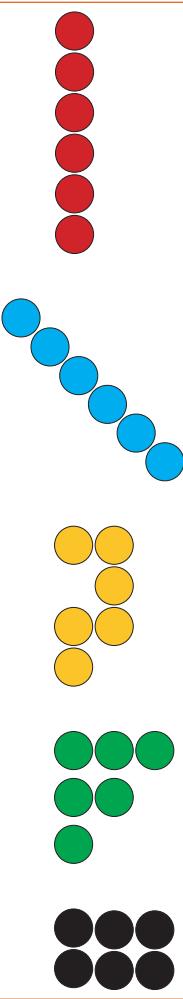
Liviki 23	Sikhatsi lesiphakanyisiwe sekufundzisa: Umsebenti munye weiliksi loheliwe lohola nguThishela (tikhatsi tekufundza) emaminithi ± 30 ngelilanga (± 5 imisebenti yetibalo ngeliviki)		
Sihloko	Emanotsi lacacisako	Tinsita letiphakanyisiwe	Budze besikhatsi lesilinganisiwe
1.1 Bala tintfo	<p>Kugicizelela Iwati loluffolle lolufaka ekhatsi letinombolo -1 kuye ku-5</p> <p>Temlomo: Bala tintfo letisetjentiswa malanga onkheonkhe kuye ku- 5. Bala uye phambili nasemuva kuye ku -5. Bala ngenhloko 1-10</p> <p>Gcizelela Iwati loluphatselene “nalokunyenti nalokumbalwa”</p> <p>Shaya tanda kanyenti.....MANI.</p> <p>Shaya tanda sikhatsi lesincane.Thishela ushaya tanda aphindze ka- 5.</p> <p>Buta kutsi ngutipihi tanda letishaywe kanyenti/ kancane</p> <p>umnyakato</p> <p>Asidiale umdialo:</p> <ul style="list-style-type: none"> - Thishela udlala umtijingo sib. Sigubhu. - Bafundzi bayahambahamba. <ul style="list-style-type: none"> - Nangabe sigubhu sithula, thishela ubita inombolo emkhatsini wa -1 ne- 5. - Bafundzi batihlela babe ngemacenjana lmancane sib. Thishela ubita -3 bese bafundzi batihlela ngemacembu -3. 	<p>Lilanga-1 Khetsa imisebenti lembalwa</p> <p>Emaculo nemilolotelo yetinombolo</p> <p>Sigubhu</p>	

Liviki 23	Sikhatsi lesiphakanyisiwe sekufundzisa: Umsebenzi munye weiliksi loheliwe lohola nguThishela (tikhatsi tekufundza) emaminithi ± 30 ngelilanga (± 5 imisebenzi yetibalo ngeliviki)	Emanotsi lacacisako	Tinsita letiphakanyisiwe	Budze besikhatsi lesilinganisiwe					
1.6 Sihloko	<p>Lokuphatsekako usebenitsa tintfo letingemadayimenshini lamatsattu (3-D)</p> <ul style="list-style-type: none"> - Thisela ubeka incumbi yetintfo etafuleni. Bafundzi abacombele kutsi tngaki tintfo kulencumbi. - Tibale ngemuvakwesikhatsi. <p>Asidiale umdialo:</p> <p>Thishela wakha sitepisi setinombolo estiyilweni nobe phasi. Lenombolo lesesitepisini imele inombolo yendlu yalahho umfundzi ahla khona.</p> <p>Thishela ukhetsa bafundzi asebentisa umlolotelo wekubala abuye anikete ticondziso letifana na:</p> <ul style="list-style-type: none"> - Manini ecandzeni nobe nicale ngelicandza sonkhe sikhatsi. Veta kutsi licanza lisho kutsi akunalutfo nekutsi kubala kahle kahle kucala ku -1. - Bala uba uhamba ngassosonkhe sikhatsi. - Thishela utsi kumfundzi: "usendini lengunombolo -2, nguyiphi inombolo leta nemuya kwa- 2?" - Ticondziso letinye tingaba: "hamba uye endlini lengunombolo -3. Buyela emuva uye endlini lengunombolo -2. Hamba uyephambili endlini lengunombolo -4." - Thishela utsi: "ngisenombolweni ye -3, nguyiphi indlu lelandzela leyami?" - Hamba uye endlini lengunombolo -4. Hamba uyephambili udlule -1 inombolo. Hamba uye emuva ngetinombolo le- 2. - Mani emkhatsini wendlu lengunombolo -3 na -5. 	<p>Umlolotelo wekubala: 1, 2, 3, 4, 5, Ngingaze ngibambe inhlanti iphila 6, 7, 8, 9, 10 Ngase ngiyayiyekela yahamba</p> <table border="1"> <tr> <td>0</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td></tr> </table>	0	1	2	3	4	5	<p>Lilanga-1 Khetsa imisebenzi lembalwa</p>
0	1	2	3	4	5				
1.4 Chaza, ucatsanise ubuye uhlele tinombolo	<ul style="list-style-type: none"> • Sebenitsa inombolo - 5 engcikitsini leyetayelekile <p>Kute uitutukise kubamba/kukhumbula, khutsata bafundzi kutsi:</p> <ul style="list-style-type: none"> - Babambe ngenhloko tinombolo telicingo lwabomake nabobabe wabo. - Babambe ngenhloko emakheli akubo. - Letinombolo telicingo kufanele tphindwe ngesikhatsi kubukwa irejista yalabakhona malanga onkhe. 	<p>Inombolo yelucingo lwabomake nobe bobabe nemakheli asemakhaya</p>	<p>Lilanga -1</p>						

Liviki 23	Sikhatsi lesiphakanyisiwe sekufundzisa: Umsebenzi munye welikiasi loheliwe loholwa nguthishela (tikhatsi tekufundza) emaminithi ± 30 ngelilanga (± 5 imisebenzi yetibalo ngeliviki)		
Sihloko	3.2 Tintfo letingemada-yimenshini lamatsattfu (3-D) letiphatsekako	Emanotsi lacacisako	Tinsita letiphakanyisiwe
	<p>Kwakha tintfo letingemada-yimenshini lamatsattfu (3-D) usebenntisa tinsita</p> <ul style="list-style-type: none"> - Bafundzi abakhe basukela esibonelweni sathishela. Uniketa lesicondziso lesilandzelako. - Yakha sakhiwo lesidze kakhulu lesifana nesami. - Yakha sakhiwo lesifsha kunesami. - Yakha sakhiwo lesidze kunesami. - Bafundzi abatakhele sabo sakhiwo ngekutsatsela esakhiwi lebanikwe sona lesisibonelo. 	<p>Emanotsi lacacisako</p> <ul style="list-style-type: none"> - Emabhuoloki ekwakha/emabhuoloki eLego emathulusi ekwakha. 	Budze besikhatsi lesilinganisiwe
	<p>3.1 Kubekeka, kutetayeta nekubukeka</p> <p>Lokuphatsekako usebenntisa tintfo letingemadaiyimenshini lamatsattfu (3-D)</p> <ul style="list-style-type: none"> • Kutuffukisa Iwati Iwetinkhombandela ngekwetfulla kokubili lokuphatsetlene na “embili nasemuva” - Njengobe singeniso, sicinisekisa Iwati lolutfotakele evikini le- 8. <p>Umnyakato</p> <ul style="list-style-type: none"> - Dwyeba indilinga, calantsattfu nobe sikwele esicheshini seliphepha bese ukubeka esiyilweni/ekhapnethini. <p>Bafundzi:</p> <ul style="list-style-type: none"> - Abashove imoto yekudlala eceleni nemigca bese ubavumela uvumela bakutjele kutsi imoto ja ngakuphi (embili nasemuva, esancelle nesekudla usbentisa umkhono wakho kuhomba sancelle nesekudla) <p>Lokubonakalako ungeke ukuphatse usebenntisa bobunjiwa labangemada-yimenshini lamabili (2-D), nobe titfombe</p> <ul style="list-style-type: none"> - Bafundzi abasebente/abati ngalamagama embili/emuva ngekukhomba Inkhombandela etitfombeni sib. Lapho kuyangakhona imoto, lapho umuntfu acondze khona. 	<p>Lilanga-1</p> <p>Lilanga-1</p> <p>Lilanga-1</p> <p>Lilanga-1</p>	

Liviki 23	<p>Sikhatsi lesiphakanyisiwe sekufundzisa: Umsebenti munye weiliksi loheliwi loholwa nguthishela (tikhatsi tekufundza) emaminithi ± 30 ngelilanga (± 5 imisebenti yetibalo ngeliviki)</p>			
Sihloko	4.2 Bubze	<p>Emanotsi lacacisako</p> <p>Catsanisa ubuye uhlele tintfo ngendelia yekusebentisa tintfo letiphatsekako usebentisa silulumagama lesifanele kuchaza budze</p> <ul style="list-style-type: none"> • Combela budze betintfo letehlukene <p>Umnyakato</p> <ul style="list-style-type: none"> - Bafudzi batihlela kusukela kulomfisha kakhulu kuye kulomudze kakhulu. Catsanisa budze babo nebudze bebangani babo. - Diala umdialo "wekulandzela umholi". Lomudze kakhulu wenta umnyakato ngesikhatsi labo labangemuva balingisa. Gucula lomugca wonkhee kute lomfisha kakhulu abe ngumholi. - Bafundzi abacatsanise tandla netimywao tabo kute babone kutsi ngutiphi letindze kakhulu/letimfisha kakhulu. <p>Combela ubuye ukale:</p> <ul style="list-style-type: none"> - Bafundzi bacombela kutsi nguyiphi intfo lendze nekutsi nguyiphi lemfisha sib. Budze belitafula nobe siceshana sentsambo. - Combela kutsi nguyiphi intfo lendze kakhulu nobe lemfisha kakhulu sib. Ipeniseli nobe emakhlayoni emafutsa. - Bafundzi abacombele kutsi nguyiphi intfo letawuba yindze sib. Timunyo-2 tilawese talangana ngethioko nobe emaphini ekufasa emaphephe. - Buta umbuto lofana na: "Ngukuphi lokudzelokudze kakhulu, ipeniseli nobe siceshana sentsambo?" njil. - Ngusiphi situlo lesikhashane kakhulu nelideski lathishela? - Mangaki emapeniseli langenela licala lelidze lelideski lathishela? - Udzinga tinyatselo letingaki kute uifike emnyango? - Tingaki tikhwakhwa temefiso, letigcwele lsanti, letitawugcwala lelibhokisi? - Tingaki tinkomishi temacandza letigcwele emanii letingagcwala legiasi? - Naba bafundzi labane netitulo letimtsattfu. - Sidzinga kwengeta ngattingaki titlu? 	<p>Tinsita letiphakanyisiwe</p> <p>Budze besikhatsi lesilinganisiwe</p> <p>Emalanga 2 nobe Khetsa imisebenti lembalwa</p>	

Emaviki 24		Sikhatsi lesiphakanyisiwe sekufundzisa: Thishela munye –umsebenzi loheliwe welikasi (tikhatsi tetifundo) ± 30 emaminithi ngelilianga (± 5 imisebenzi yetibalo ngeliviki)	Budze besikhatsi lesillinganisiwe
Sihloko	Emanotsi lacacisako	Tinsita Letiphakanyisiwe	
1.1 Bala tintfo	<ul style="list-style-type: none"> Ngenisa inshokutsi yenombolo -6 <p>Temlomo: Bala tintfo letisetjentiswa malanga onkheonke kufike ku -6. Kubala uye phambili nasemuya kuye ku- 6.</p> <p>Gcizelela tibalo te-odinali: Thishela upakisha tintfo emgceni. Ukhomba entfweni ngayinye ngalesikhatsi abala kunye, kubili, kutsaffu</p> <p>Gcizelela Iwati loluphatselene “nalokunyenti nalokumbalwa” Shaya tandla kanyenti.....MANI.</p> <p>Shaya tandla sikhatsi lesincane. Thisheia ushaya tandla aphindze ka- 6.</p> <p>Buta kutsi ngutiphi tandla letishaywe kanyenti/ kancane</p> <p>Umnyakato Bafundzi: <ul style="list-style-type: none"> Babala kasitfupha ube ugibalatitepisi. Badvweba inombolo- 6 esantini bese uhamba /uyazuba/ intsambo/uyazuba ngemiente munye Bashahaya tandla kasitfupha. Babona tinombolo -1 kuye ku -6 ngemasethi etimphawu tetinombolo letinkhulu. Bapaka inombolo yendlu nobe tinombolo telucingo Iwakubo ekhadini lelinenombolo lenku. </p>	<p>Emaculo nemiolotelo yetinombolo</p> <p>Yenta lisethi lakho letimpawu, letingabaniwa bantswana. Batawufundza ngenombolo yeminyaka yabo, inombolo yeflethi/indlu, inombolo yelucingo nobe yebafundzi nalokunye.</p> <p>Isethi yetinombolo lefanako ingasetjentiswa kubona tinombolo neku hela kulandzelana kwetinombolo.</p>	Lilanga -1

Emaviki 24	Sikhatsi lesiphakanyisiwe sekufundzisa: Thishela munye –umsebenzi loheliwe welikasi (tikhatsi tetifundvo) ± 30 emaminithi ngelilianga (± 5 imisebenzi yetibalo ngeliviki)		
Sihloko	Emanotsi lacacisako	Tinsita Letiphakanyisiwe	Budze besikhatsi lesillinganisiwe
1.1	<p>Lokuphatsekako usebenzia tintfo letingemadymenshini lamatsattu (3-D)</p> <p>Kubala tintfo eklassini. Bafundzi abente loku:</p> <p>Buta bafundzi loku lokulandzelako:</p> <ul style="list-style-type: none"> - Nguyiphi inombolo leta emva kwa kutsattu, nguyiphi inombolo lelandzela -5 njil? - Thishela ubeka tintfo letiphatsekako encunjini etafuleni .Bafundzi abacombe kutsi tingaki tintfo letisencunjinji, tibale ngemuva kwaloko. - Tfutufukisa lwati iwekubeka tinombolo ngekutsi bafundzi bapake tibali letisifupha nobe letinye tintfo ngetindlela letehlukene sib.  <p>Nangabe kubalwa,inombolo yetintfo ayitsikabetwa yizi yayo,nobe kubekaka nobe ngabe tiluhlobo lolufanako liyefana Sibonelo:</p> <ul style="list-style-type: none"> - Hlela emakinobho la-6, emapenisi lasi- 6, emahhulahubhu la- 6, bafundzi la-6 njil. - Tibale ngeluhlelo lolwehlukile sib.tibale ngekutisakata, tisondzelene ndzawonye, tisengceni nobe tilekene. <p>Yehlukanisa bafundzi ngemacembu lasifupha.Nika licembu ngalinye emabhuoloki la-6 ekwakha.</p> <p>Emacembu:</p> <ul style="list-style-type: none"> - Abala emabhuoloki abo. - Akha sakhiwo lesiphakeme kakhulu lesinemabhuoloki la- 6. Khutsata bafundzi kubala "amabhuolok" njengobe bakha sakhiwo lesiphakeme kakhulu. - Thishela uhamba ecenjini ngalinye alebule sakhiwo ngelkhadi nombolo. Bafundzi babala takhiwo letiphakeme kakhulu kutsi tingaki. Kuphindze kanynti loku. - Khetsa umfundzi lotawuphosa lidayizi.Cinisekisa kutsi bonke bafundzi batilibona lidayizi. Bafundzi babala inombolo yemacashati bese bakhomba sakhiwo lesiphakeme kakhulu lesihambelana nenombolo yemacashati. 	Lilanga -1	

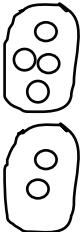
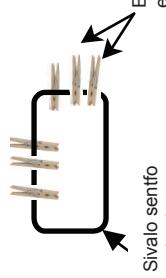
Emaviki 24	Sikhatsi lesiphakanyisiwe sekufundzisa: Thishela munye –umsebenzi loheliwe welikasi (tikhatxi tetifundvo) ± 30 emaminithi ngelilianga (± 5 imisebenzi yetibalo ngeliviki)		
Sihloko	Emanotsi lacacisako	Tinsita Letiphakanyisiwe	Budze besikhatsi lesillinganisiwe
1.3 Timphawu nemagama etinombolo	<p>Yati inombolo ubuye ubone emagama etinombolo lafka ekhatsi inombolo -6</p> <p>Temlomo: Babala tintfo letisjetjentiswa malanga onkheonkhe kuye ku-6.</p> <p>Bala uye phambili nasemuva kufike ku-6</p> <p>Gcizelela Iwati loluphatseline na “lokunyenti nalomkuncane” .</p> <p>Shaya tandla kanyenti yekela/mani</p> <p>Shaya tandla ngesikhatsi lesincane. Thishela ushaya tandla ka -6.</p> <p>Buta kutsi ngutiphi tandla letishaywe kanyenti/ kancane</p> <p>Umnyakato</p> <ul style="list-style-type: none"> - Dweba inombolo- 6 phasi/esiyilweni bese bafundzi bahamba eceleni kweyo. - Dweba inombolo- 6 esantini; emoyeni. - Yakhha lenombolo-6 ngelubumba. - Bafundzi abacombele kutsi bangaki bafundzi labatawudzingeka kute bakhe inombolo 6 ngemitimbay yabo. Bakha inombolo- 6 ngemitimbay yabo. <p>Lokuphatsekako usebentisa tintfo letingemadayimenshini lamatsattu (3-D)</p> <ul style="list-style-type: none"> - Beka incumbi yetintfo etafulen. Diala ngetinombolo -1 kuye ku- 6 sib. - Bafundzi abacombele kutsi tingaki tintfo letikhona. - Bala letintfo. 	<p>Emaculo nemiolotelo yetinombolo</p> <p>Tintfo le-6</p>	Lilanga -1
	<p>Lokubonakaloko ungeke ukuphatsa usebentisa bobunjwa labangemada-yimenshini lamabili (2-D) nobe titfombe</p> <ul style="list-style-type: none"> - Bona inhanganisela yemakhadigama lanetitfombe leti 6 kuwo uwahlobanise netinombolo tetibali. - Khombisa emakhadigama lanetitfombe leti 6 bese uthlobanisa netinombolo temacashati netibali. - Khombisa emakhadidi emacashati lasi 6 lahambisana neluphawu lwenombolo kanye netibali letilingana naleyo nombolo. - Kufola emakhadidi tinombolo emagama etinombolo letinleinani letibaliifanaka. 	<p>Emafleshikhadi etitfombe nemacashati lafaka ekhatsi lenombolo-6 Sib.</p> <p>Sitfombe setintfo leti-6</p>	<p>Tibali nobe tintfo letingemadayimenshini lamatsattu (3-D)</p> <p>Sitfombe setintfo le - 6</p> <p>6</p> <p>Sitfupha</p>

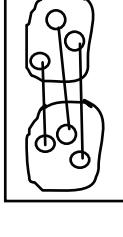
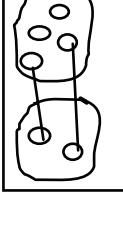
Emaviki 24	Sikhatsi lesiphakanyisiwe sekufundzisa: Thishela munye –umsebenzi loheliwe welikasi (tikhatsi tetifundvo) ± 30 emaminithi ngelilianga (± 5 imisebenzi yetibalo ngeliviki)	Budze besikhatsi lesillinganisive
Sihloko	Emanotsi lacacisako	Tinsita Letiphakanyisiwe
1.13 Kuhlanganisa nekususa	<p>Sombulua tinkingra tetibalo tekuhlanganisa nekususa leteffulwe ngemlomo netimpheendulo letifika ku-6</p> <p>Temlomo: Kubala tintfo letisjetentiswa malanga onkheonkhe kuye ku -6. Bala uye phambili nasemuva kuye ku -6. Buta kutsi ngutiphi tandla letishaywe kanyenti/ kancane.</p> <p>Umnyakato Tibonelo:</p> <ol style="list-style-type: none"> 1. Thishela ubita bafundzi la -3 bete phambili abuye abite labanye bafundzi la-2 bese ubuta umbuto. Bangaki bafundzi bangaki labafundzi nangabe bahlengene? Ku- 3 na -2 →5. (thishela utsi: 3 na -2 kwenta-5) 2. Thishela upaka titulo leti -2. Ungeta ti-2. Kunatingaki titulo nyalo? 2 na-2 →4 3. Thishela uphakamisa sinye sandia. Bese utsi:"Balani iminwe yami.Nangabe ngifila sifupha, mingaki iminwe lenyibonako? 5 ususe 1 → 4. 4.Bafundzi ababale iminwe yabo kusinye setandla tabo.Fihla sifupha sakho; Mingaki iminwe loyibonako? Fihla sifupha sakho; Mingaki iminwe loyibonako? 5 ususe 1 → 4 <p>Lokuphatsekako usebenitsa tintfo letingemadayimenshini lamatsatfu (3-D) Bafundzi bapaka tibali le-6 bese benta loku:</p> <ul style="list-style-type: none"> • Thishela unika umfundzini ngamunye tibali leti -6. • Thishela unika ticondziso bese bafundzi bayenta sib. Paka tibali le-2, ngeta - 3 yetibali. • Tingaki nasetiphelele? 2 na -3 → 5. • Kubala tibali le-4. Bala wengete 2 usukele kukune.Unatingaki nyalo? -4 na -2 → 6. • Bala bonkhe buhlalu lonabo. Nangabe umbonya buhlalu lobubili ngesandla sakho, Bungaki buhlalu lobubonako? 6 ususe 2 → 4 	Budze besikhatsi lesillinganisive

Emaviki 24	Sikhatsi lesiphakanyisiwe sekufundzisa: Thishela munye –umsebenti loheliwe weliklasi (tikhatsi tetifundvo) ± 30 emaminithi ngelilanga (± 5 imisebenti yetibalo ngeliviki)		
Sihloko	Emanotsi lacacisako	Tinsita Letiphakanyisiwe	Budze besikhatsi lesilinganisiwe
1.13 Kuhlanganisa nekususa	<ul style="list-style-type: none"> sombulula tinkinga tetibalo temgama ngemilomo lokufaka ekhattsi inombolo-6 <p>Temlomo: Kubala tintfo letisetjentiswa malanga onkheonkeh kufike ku- 6. Bala uye phambili nasemuva kuye ku- 6.</p> <p>Gcizelela Iwati loluphatselene na “lokunyenti nalo kuncane” .</p> <p>Shaya tandla kanyenti yekela/mani</p> <p>Shaya tandla ngesikhatsi lesincane. Thishela ushaya tandla ka -6.</p> <p>Buta kutsi ngutiphi tandla letishaywe kanyenti/ kancane</p>	<p>Emaculo nemilolotelo yetinombolo</p>	Lilanga-1
	<p>Tintfo letibambekako usebentise tintfo temadayimane lamatsattu (3-D)</p> <p>Sibonelo:</p> <ol style="list-style-type: none"> Mpho emakukisi la-4 . Peter umngetela nga- 2. Unamangaki emakukisi Mpho nangabe aphelle? Bongi unemidoli lemi-3 naMartha unalemi-2. Ngubani lonaleminyenti? Minyenti ngamangaki imidoli yaBongi Kunaley yaMartha? Kunetinyoni leti -5 efenisini. Le-2 taphapha. Kusele tingaki? Patrick unemathoyisi etimoto la-6. Tiny una- 4. Mancane ngamangaki emathoyisi etimoto lekanawo Tiny kulawo lana Patrick? Umtifwana munye unemphumulo yinye. Bantfwanu labatsattu bana..... Umtifwana munye unetinyawo letimbili. Bantfwanu labatsattu bana..... Umtifwana munye unemikhono lemibili. Bantfwanu lababili bana..... Umtifwana munye unemlomo munye. Battwana lababili bana..... 	<p>Tibali Sebentisa tinhlobonhlobo tetinsita kuniketa umbono wekusebentisa emasu lanlukene.</p>	
3.2 Tintfo letingemada-yimenshini lamatsattu (3-D)	<ul style="list-style-type: none"> Yakha sakhiwo lesingemadaiyimenshini lamatsattu (3-D)ekhadini lalokucambile/lesitfombe <p>Bafundzi:</p> <ul style="list-style-type: none"> - Bakha sakhiwo basisussela kulabakucambile nobe esitfombeni. - Bafundzi bafaka buhluu entsanjeni ngekulandzelana kwabo esitfombeni lesinikiwe. 	<p>“Bobunjwa belogi” nemakhono emabhuholi ”</p> <p>Nobe ngabe nguwaphi emathulusi ekwakha</p> <p>Buhluu, tintsambo teticattfulo tinhlobonhlobo temakhadji letikhomba klandzelana kwebuhluu.</p>	

Emaviki 25	<p>Sikhatsi lesiphakanyisiwe sekufundzisa: Thishela munye –utawuhola umsebenti waseklasini lohlelekile (iringi) ± 30 emaminithi ngellanga (± 5 Emisebenti Yetibalo)</p>								
Sihloko	Emanotsi lacacisako	Tinsita letiphakanyisiwe	Budze besikhatsi lesilinganisiwe						
1.1	<ul style="list-style-type: none"> Gcizelela Iwati lolutfolakel evikini le-24 lolufaka ekhatsi tinombolo-6 <p>Temlomo: Bala tintfo letisetjentiswa malanga onkheonke letifike ku- 6 Bala uye embili nasemuva kufike ku- 6 Bala ngenhloko 1-10</p> <p>Gcizelela Iwati loluphatselene na “lokunyenti nalokuncane”.</p> <p>Shaya tandla kanyenti yekela/mani</p> <p>Shaya tandla ngesikhatsi lesincane. Thishela ushaya tandla ka -6.</p> <p>Buta kutsi ngutiphi tandla letishaywe kanyenti/ kancane</p>	<p>Emaculo nemiolotelo yetinombolo</p>	Lilanga -1						
Bala tintfo	<p>Umnyakato</p> <p>Asidale umdlalo:</p> <p>Thishela ubeka phasi libhoksi lelikhulu lababunjiwa labatinombolo nobe emakhadi lafaka ekhatsi tinomblo- 1kuye ku -6 ngekulandzelana kwato.</p> <p>Thishela unika bafundzi ticondziso letifana naleti:</p> <ul style="list-style-type: none"> - Hlala enomboweni ye- 6 - Beku tintwane enomboweni- 3 - Gijima utungelete inombolo-2 katsatfu. - Zuba ngelunyawo lunye enomboweni- 1. - Thishela utawubese usakata emakhadi etinombolo besse unika ticondziso letifana naetingetulu. 	<p>Isethi yelibhokisi lelikhulu lelikhadinombolo Ungabuye uwapende emaplastikini lacinile nobe ebhokisini</p> <div style="text-align: center;"> <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td style="padding: 5px; text-align: center;">1</td> <td style="padding: 5px; text-align: center;">4</td> <td style="padding: 5px; text-align: center;">3</td> <td style="padding: 5px; text-align: center;">6</td> <td style="padding: 5px; text-align: center;">5</td> <td style="padding: 5px; text-align: center;">2</td> </tr> </table> </div>	1	4	3	6	5	2	<p>Lokuphatsekako usebentisa tintfo letingemadymenshini lamatsatfu (3-D)</p> <p>Bafundzi:</p> <ul style="list-style-type: none"> - Bala tintfo ekatasini letifaka ekhatsi tinombolo-1 kuye ku -6. - Thishela ubeka tintfo tibe yincumbi etafuleni. <p>Bafundzi bacombela kutsi tingaki tintfo letisecunjini. Tibale ngemuva kwaloko.</p>
1	4	3	6	5	2				

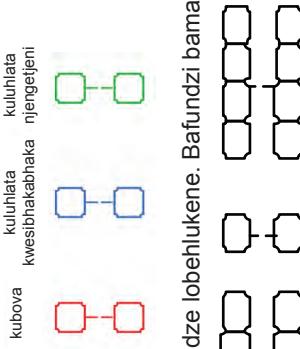
Emaviki 25	Sikhatsi lesiphakanyisiwe sekufundzisa: Thishela munye –utawuhola umsebenti waseklasini lohlelekile (iringi) ± 30 emaminithi ngellanga (± 5 Emisebenti Yetibalo)	Sihloko	Emanotsi lacacisako	Tinsita letiphakanyisiwe	Budze besikhatsi lesilinganisiwe
1.3 Timphawu nemagama etinombolo	<ul style="list-style-type: none"> Bona ubuye utfole inombolo neligama lenombolo lefifaka ekhatsi inombolo -6 <p>Temlomo: Bala tintfo letisetijentiswa malanga onkheonkhe kuye ku -6 Bala uye phambili nasemuva kuye ku-6.</p> <p>Gcizelela Iwati loluphatselene na “lokunyenti nalomkuncane” .</p> <p>Shaya tandla kanyenti yekela/mani</p> <p>Shaya tandla ngesikhatsi lesincane. Thishela ushaya tandla ka -6.</p> <p>Buta kutsi ngutiphi tandla letishaywe kanyenti/ kancane</p>	<p>• Bona ubuye utfole inombolo neligama lenombolo lefifaka ekhatsi inombolo -6</p> <p>Temlomo: Bala tintfo letisetijentiswa malanga onkheonkhe kuye ku -6 Bala uye phambili nasemuva kuye ku-6.</p> <p>Gcizelela Iwati loluphatselene na “lokunyenti nalomkuncane” .</p> <p>Shaya tandla kanyenti yekela/mani</p> <p>Shaya tandla ngesikhatsi lesincane. Thishela ushaya tandla ka -6.</p> <p>Buta kutsi ngutiphi tandla letishaywe kanyenti/ kancane</p>	<p>Lokubonakalako ungeke ukuphatsa usebentisa bobunjiwa labangemada-yimenshini lamabili (2-D) nobe tifombe</p> <ul style="list-style-type: none"> Khomba bafundzi emafleshikhadi lnemacashati lasitifupha bese uwachumanisa netibali letilingana nawo. Kudlala imidalo yekuffola inombolo letsite emkhatsini waletinye bese uyichumanisa netibali letilingana nayo. Kudlala imidalo ngekuchumanisa inombolo yetibali nemagama etinombolo, inombolo nemakhaditifombe. Tsatsisela inombolo -6 ngelikhilayoni <p>Temlomo: Babala tintfo letisetijentiswa malanga onkheonkhe kuye ku -6. Bala uye phambili nasemuva kufike ku -6</p> <p>Gcizelela Iwati loluphatselene “lokunyenti nalomkuncane” .</p> <p>Kushaya tandla emahlandla lamanyenti ...MANI Kushaya tandla tikhatsi letimbala. Thishela ushaya tandla kuye etikhtsini leti 6. Buta imibuto kutsi ngukuphi kushaya lokube manyenti/nalakabemancane</p>	<p>Sifrombe setintfo le -6</p> <p>6</p> <p>Sifupha</p>	Lilanga -1

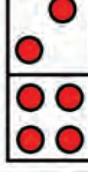
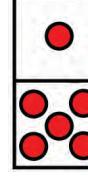
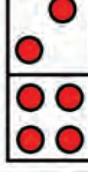
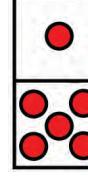
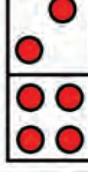
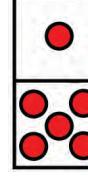
Emaviki 25	Sikhatsi lesiphakanyisiwe sekufundzisa: Thishela munye –utawuhola umsebenti waseklasini lohlelekile (iringi) ± 30 emaminithi ngellanga (± 5 Emisebenti Yetibalo)	Budze besikhatsi lesilinganisiwe
Sihloko	Emanotsi lacacisako	Tinsita letiphakanyisiwe
1.4 Chaza, ucatsanise ubuye uhlele tinombolo	<ul style="list-style-type: none"> • Hleia ubuye ucatsanise tintfo letigcogiwe usebentisa “lokunyenti kuna / lokuncane kuna” lokulingana na” kuye ku- 6. <p>Temlomo: Bala tintfo letisetjentiswa malanga onkheonkhe kuye ku-6. Bala uye phambili nasemuva kufike ku- 6</p> <p>Gcizelela Iwati loluphatselene na “lokunyenti nalomkuncane” .</p> <p>Shaya tandla kanyenti yekela/mani</p> <p>Shaya tandla ngesikhatsi lesincane. Thishela ushaya tandla ka -6.</p> <p>Buta kutsi ngutiphi tandla letishaywe kanyenti/ kancane</p> <p>Asidiale umdla:</p> <p>Thishela ubeka likhabhodi lelikhulu labobunjwa nobe emakhadi etinomblo 1kuye kungekuhleka kwato esiyilweni.</p> <p>Umnyakato</p> <ul style="list-style-type: none"> - Thishela ubeka emahhulahhubhu lamabili phasi - Ubita bafundzi la-3 kutsi beme esidlekeni sinye nebafundzi la-2 kulesinye sidlike. ”sikhehle” - Ngusiphi “sikhehle” lesinebafundzi labanyenti.? 	<p>Lilanga 1 Khetsa imisebenti lembalwa</p> <p>Emaculo nemiolotelo yetinombolo</p> <p>2 emahhulahhubhu</p>  <p>2 insontfo umfundzi ngamunye eleamer Tibali</p>
	<p>Lokuphatsekako usebentisa tintfo letingemadayimenshini lamatsaffu (3-D)</p> <ul style="list-style-type: none"> - Bafundzi bahlala ekhaphethini bentie tiddlekeletimbili ngesontfo . - Thishela uniketa ticondziso sib.Bafundzi babeka tibali leti- 2 “esidlekeni” sinye “sib. Bafundzi babeka tibali leti- 2 “esidlekeni” sinye naleti- 4 kulesinye “sidlike”(letimbalwa) ?Ngusiphi sidlike lesina tmyenti/letimbalwa? - Phindza usebentise tinombolo kufike ku -6. - Thishela usebentisa sivalo se ayiskhilim. Utasa timphahla leti -3 ecaleni leisetulu lesivalo netimpahala leti -3.Wafasa- 3 timphahla ngemapegs ngakulicele lesekudla. - Nguyiphi inombolo yemapegs lenyenti kunalenye nobe liyalingana. <p>Bafundzi bangalingisa lomsebenti emacenjini licembu ngalinye libe nesivalo salo nemaphekisi etimpahala.</p>	

Emaviki 25	Sikhatsi lesiphakanyisive sekufundzisa: Thishela munye –utawuhola umsebenti waseklasini lohlelekile (irangi) ± 30 emaminithi ngellanga (± 5 Emisebenti Yetibalo)		
Sihloko			
1.4	<p>Chaza, ucatsanise ubuye uhlele tinombolo</p> <p>Lokubonakalako ungeke ukuphatse usebentisa bobunjiwa labangemada-yimenshini lamabili (2-D) nobe titfombe</p> <ul style="list-style-type: none"> - Thishela ukhombisa emakhadi lanetinombolo letehlukene temacashati nobe titfombe kuwo.  <ul style="list-style-type: none"> - Bafundzi bacatsanisa emakhadi etitfombe nemacashati batfole kutsi nguwaphi lamanyenti kuna nalamananyenti kuna nalokuncane "kuna nalokulingana" nelwati lokukhulunywa ngalo. <ul style="list-style-type: none"> - Bafundzi badyweba tikhiehe letimbili esiceshaneni seliphepha. Ngekuniketwa ticondziso batfawupaka bachumanise tibali kuleso naleso sikhelle ngelikhilayoni Tfutufukisa umcondvo kwaba ngatokulinganako sib.  <ul style="list-style-type: none"> - Gcogca tinombolo letiphelele ngetimpwendvulo letifaka umphumela sib. 	<p>Tinsita letiphakanyisiwe</p> <p>Budze besikhkhati lesilinganisiwe</p> <p>Lilanga 1 Khetsa imisebenti lembarwa</p>	<p>Lilanga 1</p>
3.3	<p>Bobunjiwa labangemada-yimenshini lamabili (2-D)</p> <ul style="list-style-type: none"> • Yenta ubuye ucedzise iphazili yakho lebala ngaku-5 Bafundzi: <ul style="list-style-type: none"> - Badwweba sitfombe seliphepha le-A4. - Thishela udvweba imigca ngemuva kwencowadzi yemfundzi. - Umfundzi ujuba sitfombe sakhe emigceni lenketwe. - Sinamatselisi ermacezeni alo 	<p>Emakhilayoni Liphepha le -A4 Tikelo</p>  <p>Imvilophu nobe sikhwama laba tentele sona Kute bafake iphazili (goca liphepha le- A4 ufake sinamatselisi ermacezeni alo)</p>	<p>Lilanga -1</p>

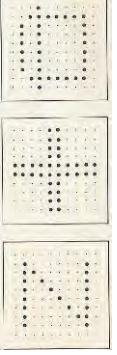
Emaviki 25	Sikhatsi lesiphakanyisiwe sekufundzisa: Thishela munye –utawuhola umsehenti waseklasini lohlelekile (iringi) ± 30 emaminithi ngellanga (± 5 Emisehenti Yetibalo)	Emanotsi lacacisako	Tinsita letiphakanyisiwe	Budze besikhatsi lesilinganiweise											
5.1 Gcogca ubuye uhlunge	<ul style="list-style-type: none"> Inombolo yetinhlavu emagaeni ebafundzi! <p>Kucatulula tinkinga tetibalo: Nika bafundzi inkanga: "Ngabbe emagama lanetinhlavu letisitifupha avamile yini? Singatfolia njani ?</p> <p>Gcogca idatha</p> <ul style="list-style-type: none"> Bafundzi babala inombolo yetinhlavu letisemagameni abo basusela egameni lelebli leyentive nguthishela. Bafundzi babamba likhadinombolo lelihambisana nenombolo yetinhlavu letisegameni lemfundzi abyue ababute: Ngubani lonetinhlavu leti 4 egameni takhe bese uphakamisa likhadi lelineluphawu lwenombolo? Phindza loku ngato tonkhe tinombolo. <p>Dvweba igrafu</p> <ul style="list-style-type: none"> Thishela udwweba lelithebuli lelandzelako abe aphakamisa tinombolo: <table border="1"> <thead> <tr> <th>Tinhlavu 3</th><th>Tinhlavu 4</th><th>Tinhlavu 5</th><th>Tinhlavu 6</th></tr> </thead> <tbody> <tr> <td>Ann Sam</td><td>Kady Mark Maja</td><td>David Aidon Sarah Caleb Naila</td><td>Sophie Jessie</td></tr> <tr> <td>2</td><td>3</td><td>5</td><td>2</td></tr> </tbody> </table>	Tinhlavu 3	Tinhlavu 4	Tinhlavu 5	Tinhlavu 6	Ann Sam	Kady Mark Maja	David Aidon Sarah Caleb Naila	Sophie Jessie	2	3	5	2		
Tinhlavu 3	Tinhlavu 4	Tinhlavu 5	Tinhlavu 6												
Ann Sam	Kady Mark Maja	David Aidon Sarah Caleb Naila	Sophie Jessie												
2	3	5	2												
5.2 Veta lugcogco lwetintfo lethlungiwe			<p>5.3</p> <p>Coca ubuye ubike ngelugcogco lwetintfo lethlungiwe</p> <p>Kufundza nekuhumusha igrafu</p> <p>Kufundza nekuhumusha lithebuli</p> <ul style="list-style-type: none"> Nguyiphi inimbolo levela kanyenti kuletinombolo tetinhlavu teligama. Mangaki emagama lanetinhlavu letingetulu kwa 5? Emagama lamabili lanetinhlavu letisitifupha. Mangaki emagama lanetinhlavu letimbalwa kunaleti 5? Emagama lamatsatfu 												

Liviki 26	Sikhatsi lesiphakanyisiwe sekufundzisa: Umsebenti munye lohleiwi loholwa nguthishela (tikhatsi tetifundo) Emarinithi ± 30 ngelilanga (Imisebenti yeTibalo ± 5 ngeliviki)		
Sihloko	Emanotsi lacacisako	Tinsita letiphakanyisiwe	Budze besikhatsi lesilinganisiwe
1.1 Bala tintfo	<ul style="list-style-type: none"> Gcizelela Iwati lolutfolakele lolutaka ekhatsi tinombolo -1 kuya ku -6 Temlomo: Bala tintfo letisetjentiswa malanga onkheonke urike ku- 6. Bala uye phambili nasemuva urike ku- 6. <p>Gcizelela Iwati loluphatselene na “lokunyenti” “lokuncane”</p> <p>Shaya tandla kanyenti...MANI</p> <p>Shaya tandla tikhatsi letincane. Thisheta ushaya tandla kasitifupha.</p> <p>Buta kutsi ngutiphi tandla letishaywe kanyenti/ kancane</p> <p>Umnyakato</p> <p>Bafundzi:</p> <ul style="list-style-type: none"> - Abakhe tinombolo ngemtitimba yabo. - Abaphakamise iminwe rjengeku sho kwathishela. - Abakhe tinombolo ngetintsanjana nobe inhlama yekudala - Ababambe bobunjwa betinombolo labakiwe ngekhadibodi labasesikhwameni bese basho inombolo ngayiyye - Ababbale tinombolo 1 kuya ku-6 emhlabatsini nobe emoyeni njil 	<p>Lilanga -1</p> <p>Emaculo nemiolotelo yetinombolo</p>	

Liviki 26	Sikhatsi lesiphakanyisiwe sekufundzisa: Umsebenti munye loheliwe loholwa nguthishela (tikhatsi tetifundo) Emarinithi ± 30 ngelilanga (Imisebenti yeTibalo ± 5 ngeliviki)		
Sihloko	Emanotsi lacacisako	Tinsita letiphakanyisiwe	Budze besikhatsi lesilinganisiwe
1.1 Bala tintfo	<p>Lokuphatsekako usebentisa tintfo letingemadymenshini lamatsattu (3-D)</p> <p>Bafundzi:</p> <ul style="list-style-type: none"> - Ababale tintfo eklassini letifaka ekhatsi tinombolo -1 kuye ku -6 - Ababale tibali letifika kunombolo -6 - Abebeke emakhiyubhi lambalwa eyunifikasi emgenci etukweliteafula - Abamatanise lamakhiyubhi ngembala basebentisa lamanye emakhiyubhi eyunifikasi nobe tibali. Sibonelo.  <p>Tintfo eklassini</p> <p>Tibali letinemibala nobe emakhiyubhi eyunifikasi</p>	Lilanga -1	
1.3 Timphawu nemagama etinombolo	<p>• Wati tinombolo abuye abone emagama etinombolo letifaka ekhatsi inombolo -1 kuye ku -6</p> <p>Temlomo: Bala tintfo letisetjentiswa malanga onkheonkhe urike ku -6 Bala uye phambili nasemuva urike ku -6</p> <p>Gcizelela Iwati oluphatselene na “lokunyenti” “lokuncane”</p> <p>Shaya tandia kanyentii...MANI</p> <p>Shaya tandia tikhatsi letincane. Thishela ushaya tandia kufike ku-6</p> <p>Lokubonakalako ungeke ukuphatse usebentisa bobuniwa labangemadyimenshini lamabili (2-D) nobe titfombe</p> <p>Asidiale umdlalo:</p> <ul style="list-style-type: none"> - Thishela ubhala ligama lenombolo kulinye licale abhale inombolo kulinye licale lokufaka ekhatsi tinombolo 1kuye ku -6. (yenta emasethi lambala) - Bafundzi “bafundza” emagama etinombolo bese bacombela tinombolo. - Baguculela likhadi bese bayatilungisa. 	<p>Lilanga -1</p> <p>Phambili kwelikhadi</p> <p>Emuya kwelikhadi</p> <p>6</p> <p>Stifupha</p>	<p>Emakhadi lafaka ekhatsi tinombolo 1-6 neligama lenombolo kulinye licale nenombolo kulinye licale (Enta emasethi lambalwa kute umntiwana ngarmurye abe nelikhadi lakte)</p>

Liviki 26	Sikhatsi lesiphakanyisiwe sekufundzisa: Umsebenti munye loheliwe loholwa nguthishela (tikhatsi tetifundvo) Emarminithi ± 30 ngelilanga (Imisebenti yeTibalo ± 5 ngeliviki)							
Sihloko	<p>1.7 Kuhlanganisa nekususa</p> <p>Emanotsi lacacisako</p> <ul style="list-style-type: none"> Sombulula tinkinga tetibalo temagama ngemromo (tibalo tetindzaba) engikitsini bese uchaza tisombululo takho letifaka ekhatsi inombolo-6 <p>Temromo: Bala tinflo letisetjentiswa malanga onkheonkhe urike ku -6 Bala uye phambili nasemuva urike ku- 6</p> <p>Gcizellela Iwati loluphatselene na “lokunyenti” “lokuncane”</p> <p>Shaya tandla kanyenti...MANI</p> <p>Shaya tandla tikhatsi letincane. Thishea ushaya tandla kasitfupha.</p> <p>Buta kutsi ngutiphi tandla letishaywe kanyenti/ kancane</p> <p>Lokuphatsekako usebentisa tintto letingemadai menshini lamatsattu (3-D)</p> <ol style="list-style-type: none"> Niketa umfundzi ngamunye liphepha le-A4 lelinemugca lodvwjetiwe wacondza/wabheka etulu netibali leti -6 sib. <p></p> <ol style="list-style-type: none"> Bafundzi abaphose tibali ngekuophellela etukweliphepha bese bacchaza kutsi tiwe njani tibali, sib: <table border="1"> <tr> <td></td> <td>4 na - 2 → 6 (4 na- 2 kwenta -6)</td> </tr> <tr> <td></td> <td>3 na - 3 → 6</td> </tr> </table> <ol style="list-style-type: none"> Phindza wente ngetinombolo 1 kuye ku- 5. <table border="1"> <tr> <td></td> <td>5 na - 1 → 6</td> </tr> </table> <p>4. Kusombulula tinkinga tetibalo: Chaza tisombululo takho tetinkinga tetibalo.</p> <p>5. Enta lokufananako ngetinkingga tetibalo tekususa</p>		4 na - 2 → 6 (4 na- 2 kwenta -6)		3 na - 3 → 6		5 na - 1 → 6	<p>Budze besikhatsi lesilinganisiwe</p> <p>Lilanga -1</p>
	4 na - 2 → 6 (4 na- 2 kwenta -6)							
	3 na - 3 → 6							
	5 na - 1 → 6							

Liviki 26	Sikhatsi lesiphakanyisiwe sekufundzisa: Umsebenti munye loheliwe loholwa nguthishela (tikhatsi tetifundo) Emarinithi ± 30 ngelilianga (Imisebenti yeTibalo ± 5 ngeliviki)		
Sihloko	Emanotsi lacacisako	Tinsita letiphakanyisiwe	Budze besikhatsi lesilinganisiwe
4.4 Umtsamo nebungako	<ul style="list-style-type: none"> Kungenisa Iwati Iwesilinganiso semtsamo ngekucatsaanisa kutsi tintfo tekutsela letahlukahlukene ticukatsa lokungakanani, sib: <ul style="list-style-type: none"> - “Akunalutfo/ kugcwele” - “Kunyenti kuna/ kuncane kuna” - “Kunyenti, kuncane” <p>Ngenisa umtsamo kubafundzi ngekubabuta kutsi nguyiphi intfo yekuphatsa lephatsa lokunyenti.</p> <p>Esikhatsini lesinyenti bafundzi bacatsanisa budze kunentsamo.</p> <p>Sibonelo, nangabe ubutwa kutsi ngukuphi lophatsa lokunyenti, intfo yekuphatsa lendze nobe lemfisha, bafundzi labanyenti batawukhetsa lendze nanobe lelemfsha iphatsta lokusamanti lokunyenti.</p> <p>Umnyakato</p> <p>“Kunyenti kuna/ kuncane kuna”</p> <ul style="list-style-type: none"> Sebentisa intfo yinye yekuphatsa njengesilinganiso, sib: inkomishi yeyogathi. Niketa bafundzi tintfo tekuphatsa letehlukene. <p>Bafundzi:</p> <ul style="list-style-type: none"> Abafole kutsi nguyiphi intfo yekuphatsa lephatsa lokunyenti nobe lephatsa lokuncane, sib: inkomishi yeyogathi. Nguyiphi intfo yekuphatsa lenkhulu? Nguyiphi intfo yekuphatsa lencane? <p>Nika bafundzi sipunu nelihakede lelinesanti kute bakhe Isanti bayifake enkomoshini.</p> <p>Bafundzi:</p> <ul style="list-style-type: none"> Babala kutsi tingaki tipunu tesanti latidzingako kute agcwaliise inkomishi. Lokufundza ngekulinga kungaba matima nangabe bafundzi banganiketwa tintfo tekuphatsa letinyenti, sib: inkomishi, ingilazi yepulasitiki nentfo yekuphatsa lencane. Phindza lomsebenti usebentisa tinkomishi 	<p>Lilanga -1 Khetsa umsebenti munye nobe lembili kuphela</p>	

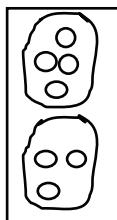
Liviki 26	Sikhatsi lesiphakanyisiwe sekufundzisa: Umsebenti munye loheliwi loholwa nguthishela (tikhatsi tetifundvo) Emarinithi ± 30 ngelilanga (Imisebenti yeTibalo ± 5 ngeliviki)	Emanotsi lacacisako	Tinsita letiphakanyisiwe	Budze besikhatsi lesilinganisiwe
3.1 Kubebeka, kutetayeta nekubukeka	<p>Uchaza tintto letimbili nobe letinyentti temaday/menshini lamatsatu (3-D)</p> <ul style="list-style-type: none"> Indzawo yetintto letimbili nobe letengca kuletimbili ratihambelana naletinye <p>Lokuphatsekako usebentisa tintto letingemadai/menshini lamatsatu (3-D)</p> <p>Umsebenti webhodi yemaphhekisi:</p> <p>Umfundzi akacale asebentise sandia sekudla abuye asebentise sesancele bese usebentisa totimbili tandla kufaka emaphhekisi ebbodini.</p> <ul style="list-style-type: none"> Thishela utjela bafundzi kutsi bawafake kuphi emaphhekisi, sib: <p>Emgceni longetulu</p> <p>Emgceni longentasi</p> <p>Emgceni losemkhatsini</p> <p>Emkhatsini</p> <p>Bafundzi:</p> <ul style="list-style-type: none"> Bakha bobunjwa ebbodini yemaphhekisi basebentisa emaphhekisi lanembala Thishela wakha iphethini lelula asebentisa emaphhekisi ebbodini yakhe yemaphhekisi bese bafundzi batsatsela lephethini yakhe bayenta kumaphegibodi abo. Bafundzi batsatsela iphethini leyentive ekhadiini lelinephethini ledwetiwe 	 	<p>Iphegibodi yemfundzi ngamunye nobe basebenta ngemacembu</p> <p>Likhadi lelidwetiwe iphethini</p>	Lilanga-1

Liviki 27 Umsebenti munye loheliwi loholwa nguthishela (tikhatsi tetifundvo) Emaminiti ± 30 ngelilanga (Imisebenti yeTibalo ± 5 ngeliviki)		Budze besikhasti lesilinganisiwe
Sihloko	Emanotsi lacacisako	Tinsita letiphakanyisiwe
1.1 Bala tintfo	<ul style="list-style-type: none"> Ngerisa inshokutsi yenombolo- 7 <p>Temilo: Bala tintfo letisetjentiswa malanga onkheonke urike ku- 7 Bala uye phambili nasemuva urike ku -7 Bala ngenhloko 1-10</p> <p>Gcizelela kubala loku-odinali: Thishela upaka tintfo le -3 emgenci. Khomba intfo yinje nawubala, kwekucala, kwesibili, kwestitsa, kwsine.</p> <p>Gcizelela lwati oluphatselene na “lokunyenti” “lokuncane” Shaya tandia kanyenti...MANI</p> <p>Shaya tandia tikhatsi letincane. Thishea ushaya tandia kayinkhotsa. Buta kutsi ngutiphi tandla letishaywe kanyenti/ kancane</p> <p>Umnyakato</p> <ul style="list-style-type: none"> Thishela uhlukanisa bafundzi ngemacembu. Niketa licembu ngalinye emabholo la -7 lentiwe ngeliphephandzaba. Bafundzi abaphose emabholo emantjini. Bafundzi kufanele babale baphimisela nabaphosa emabholo Babala kutsi thishela ushaye kangaki etafuleni bese bayakopa lakwentako bazuba ngelunyawo lunye bangena, baphuma kumahulahhubhu. Shaya ngelunyawo phansi ulandzela sigci lesetaryelekile. 	<p>Emaculo nemilolotelo yetinombolo</p> <p>Lilanga -1</p>

Liviki 27	Umsebenti munye loheliwi loholwa nguthishela (tikhatsi tetifundwo) Emaminiti ± 30 ngelilanga (Imisebenti yeTibalo ± 5 ngeliviki)		
Sihloko	Emanotsi lacacisako	Tinsita letiphakanyisiwe	Budze besikhatsi lesilinganisiwe
1.1 Bala tintfo	<p>Lokuphatsekako usebentisa tintfo letingemadayimenshini lamatsattu (3-D)</p> <p>Thishela ubeka incumbi yemabhuloki ekwakha emkhatsini wesiyilo. Uniketa ticondziso letifana naleti:</p> <ul style="list-style-type: none"> - Tsatsa emabhuloki lamatsattu kulencumbi - Tsatsa emabhuloki lamatsattu bese uyawabekwa futsi njii. - Thishela ubeka tintfo encunjini etulu kwelitafula. Bafundzi bacombela kutsi tingaki tintfo letisencunjini. Bala tintfo emva kwaloko. - Kufutukisa lwati lwekubebeka kweetinombolo ngekutsi bafundzi bapake -7 tibali bese letinye tintfo ngeyindlela letelhukene. Sib:  <ul style="list-style-type: none"> - Nangabe ubala, inombolo yetintfo ayitsikabetwa yisayizi bese indzawo nobe tiluhobo lunye. Sibonejo. - Hlela tinkinobho le-7, emapeniseli la-7, emahulahhubhu la-7, bafundzi la-7 njii - Tibale ngeluhlelo lolwehlukile, sib: tibale tehlukene, tisondzelene, tisemgceri nobe tipakiwe. <p>Lokubonakalako ungeke ukuphatse usebentisa bobunjiwa labangemada-yimenshini lamabili (2-D) bese tintfome</p> <p>Asidiale umdialo:</p> <ul style="list-style-type: none"> - Thishela udwyeba nobe unamatsisela tintfome eceleni linye lelikhadi bese udwyeba emacashati lalinganako kulelinye licele kufaka ekhatsi timombolo -1 kuya ku -7 (entia emasethi lambalwa) - Uniketa umfundzi munye likhadi linye lesethi. - Bafundzi babala tintfome likhadi lakhe linye lelinemacashati. - Gucula likhadi bese ubala emacashati. - Thishela uphakamisa likhadi lakhe linye lelinemacashati. - Bafundzi bamatanisa emakhadi abo nemacashati athishela. - Thishela uphakamisa isethi yemakhadi akhe lanetinombolo. - Bafundzi bamatanisa emakhadi abo nenombolo yathishela. - Umfundzi lonelikhadi lelingilo angasukuma bese ubala tintfome ngekuphimissa. 	<p>Emanotsi lacacisako</p> <p>Lilanga -1</p> <p>Emaleshki ekwakha nobe emabhuloki e-Lego</p>	<p>Emasethi lambalwa etiftombe, emakhadi emacashati netinombolo letifaka ekhatsi inombolo- 1 kuya ku -7</p> <p>7</p> <p>Siftombe setintfo leti - 7</p>

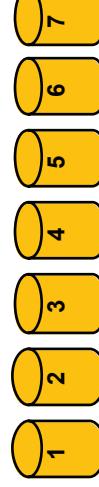
Liviki 27	Umsebenti munye loheliwi loholwa nguthishela (tikhatsi tetifundwo) Emaminiti ± 30 ngelilanga (Imisebenti ye Tibalo ± 5 ngeliviki)		
Sihloko	Emanotsi lacacisako	Tinsita letiphakanyisiwe	Budze besikhatsi lesilinganisiwe
1.13 Kuhlanganisa nekususa	<ul style="list-style-type: none"> Sombulula tinkinga tetibalo temiromo tekuhlanganisa nekususa letifaka ekhatsi inombolo -7 <p>Temiromo: Bala tintfo letisetjentiswa malanga onkheonkhe urike ku -7 Bala uye phambili nasemuva urike ku -7</p> <p>Gcizelela Iwati oluphatselene na “lokunyenti” “lokuncane”</p> <p>Shaya tandla kanyenti...MANI</p> <p>Shaya tandla tikhatsi letincane. Thishela ushaya tandla kayinkhotsa.</p> <p>Buta kutsi ngutiphi tandla letishaywe kanyenti/ kancane</p>	<p>Emaculo nemilolotelo yetinombolo</p>	Lilanga -1
1.6 Emasu ekusombulula tinkinga tetibalo	<p>Umnyakato</p> <ul style="list-style-type: none"> - Sebentisa sitepisi setinombolo lesialiswe phansi (ngalokuvundile) - Cala e- 0 ngaso sonkhe sikhatsi. Bala ngasosonkhe sikhatsi nangabe unyakata. <p>Thishela ubuta kutsi:</p> <ul style="list-style-type: none"> - Nguyiphi inombolo lesemkhatsini wa -4 ne- 6? Bafundzi batfolia lwati iwekusebentisa sitepisi setinombolo. - Ngutiphi inombolo letisemkhatsini wa- 2 ne- 5? - Sebentisa imibono yakhoo kute bafundzi batu inombolo- 7 ngekweminyakato basebentisa imitimba yabo. <p>Lokuphatsekako usebentisa tintfo lettingemadaiyimenshini lamatatsu (3-D)</p> <p>Nika umfundzi ngamunye -7 buhluu nobe tibali.</p> <p>Buta imibuto lefana nale:</p> <ul style="list-style-type: none"> - Hambisa sibali siye esancele. Nangabe singeta sinye sibali kulesi lesesancele, sitawuba natengaki tibali nyalo? - 1 na -1 → 2 (Thishela utsi: 1 na -1 kwenta -2) - Hambisa tibali le -4 tiye esancele. Nangabe singeta -2 tibali kuleti letisessancele, tingaki tibali lesinato? - na 2 → 6 - Unetibali leti -5, ususa leti -2, kusata tingaki tibali? 	<p>Buhluu nobe tibali</p> <p>Tibali</p>	

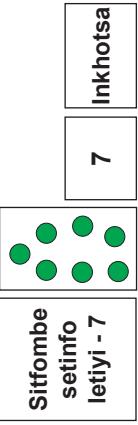
Liviki 27 Umsebenti munye loheliwi loholwa nguthishela (tikhatsi tetifundvo) Emaminiti ± 30 ngelilanga (Imisebenti yeTibalo ± 5 ngeliviki)			
Sihloko	Emanotsi lacacisako	Tinsita letiphakanyisiwe	Budze besikhasti lesilinganisiwe
1.11 Imali	<ul style="list-style-type: none"> Bona ubuye utfole imali yemaphepha yaseNingizimu Afrika <ul style="list-style-type: none"> - Sebentisa imali yemaphepha sib, R10, R20, R50, R100, R200 - Yenta bafundzi babe newati mayelana netitfombe tetilwane letehlukene letiffolakala emalini yemaphepha. - Lingisa umdlalo wemali ekhoneni lendlu. 	<p>Tiboneilo letingito te R10, R20 na R50 Emanotsi (nobe imali yekudala)</p>	Lilanga-1
1.9 Kuggoggcela ndawonye nekwabelana lokuholela ekuhluikaniseni	<ul style="list-style-type: none"> Bala ngemlomo ubuye uchaze timphendvulo tetibalo temagama letikusimongcondvo(tibalo tetindzaba) letifaka ekhatsi: <ul style="list-style-type: none"> - Kwabelana lokulinganako, - Goggcela ndzawonye tinombolo letiphelele - Netimpfendvulo letinetinisaleta kufike ku- 7 <p>Temlomo:</p> <p>Bala tinflo tyemalanga onkhe urike ku-7 Bala uye phambili nasemuva urike ku-4 Bala ngenhioko kusukela ku 1- 7</p> <p>Gcizelela Iwati loluphatseleno “nalomkunyenti nalokumbaIwawa”</p> <p>Shaya tandla kanyenti.....MAN!</p> <p>Shaya tandla sikhatsi lesincane. Thishela ushaya tandla aphinidze ka- 6.</p> <p>Buta umbuto kutsi nguyiphi inombolo yekushya tandla lebeyinyenti/mbalwa.</p>	<p>Khetsa umsebenti wemnyakato munye nobe lemibili kupheia</p> <p>Imisebenti yalokuphatsekako nalokubonakalako ungeke ukuphatse</p> <p>Imilolotelo yetinombolo nemaculo</p>	Lilanga -1

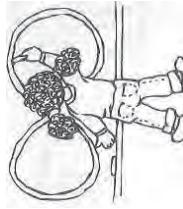
Liviki 27	Umsebenti munye loheliwi loholwa nguthishela (tikhatsi tetifundvo) Emaminiti ± 30 ngelilanga (Imisebenti ye Tibalo ± 5 ngeliviki)	Emanotsi lacacisako	Tinsita letiphakanyisiwe	Budze besikhatsi lesilinganisiwe
Sihloko	<p>1.9 Kugcogcela ndawonye nekwabelana lokuholela ekuhlukaniseni</p> <p>Umnyakato Yakha emasebenti usebentise bafundzi.</p> <p>Tibonelo:</p> <ol style="list-style-type: none"> 1. Bafundzi abente tincumbi ta- 2, 3, 4, 5 ne- 6.bala kutsi kunakungaki encunjinji. 2. Dwewba bobunjiwa labakhulu emhabatsini lomemajte nobe esantini. Bafundzi benta licembu sib. Lelinebfundzi la- 4 ngekhatsi kwabunjiwa. 3. Ngesikhatsi setikhatsi tekudla thishela utsi: "ningaphuma ngemacembu lahamba ngabane niyogeza tandla" kuneuktsi. bafunzi labane bangahamba bayogenza tandla" 4. Khetsa bafundzi la- 7 usebentise umlolotelo wekubala. 5. Bafundzi la-7 balingisa tinyoni bese benta "silihlahla semfanekiso" basebentise tinsita tekucanca ngephandle nobe titulo nematafula ngekhatsi. 6. Thishela ubeka tinyoni le- 2 "kulesihlahla semfanekiso" (bafundzi la-2 bacanca kulensita). Kungeteka inyonu ngayinyne njalo njalo. "tingaki 'tinyoni' esihlahlieri nyao, futsi tingaki letiphasi?" 7. Phindza kugcogcela ndzawonye bafundzi usebentise timombolo - 1 kufike ke-7 <p>Lokuphatsekako usebentisa tintfo letingemadaiyimenshini lamatsattfu (3-D)</p> <p>Tibonelo:</p> <p>1. Thishela unika fatundzi tibali. Bafundzi abente isethi yetibali ie- 4. Bente lenye isethi yale- 3. "Unatingaki tibali esethini yakhlo lensha?"</p> <p>2. Bafundzi abadvwebe tindilinga letimbili ephepheni. Ngekulandzelza ticondziso tathishela, bafundzi bapaka tibali emasethini lamabili kuze kutsi isethi yinye ibe letinrenti kakhulu, letincane kakhulu?</p>  			

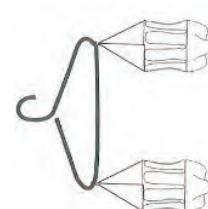
Liviki 27	Umsebenti munye loheliwi loholwa nguthishela (tikhatsi tetifundvo) Emaminiti ± 30 ngelilanga (Imisebenti yeTibalo ± 5 ngeliviki)	Emanotsi lacacisako	Tinsita letiphakanyisiwe	Budze besikhatsi lesilinganisiwe
Sihloko 4.4 Umtsamo/bungako	<p>Catsanisa lokuluu nekuhlela tintfo letiphatsekako usebentisa silulumagama lesifanele a) Umlomo b) Akunalutfo, kugcwele, kuna, kumanysti kuna</p> <ul style="list-style-type: none"> Gcizelela lowlawi lolutfolwe evikini le -26 lokufaka ekhatsi umtsamo <p>Temlomo: Bala tintfo letisetjentiswa malangga onkhe urike ku- 7. Bala uye phambili nasemuva urike ku- 7 Bala ngenhloko kusukela ku 1-10</p> <p>Gcizelela Iwati loluphatselenne “nalomkunyenti nalokumbalwa”</p> <p>Shaya tandia kanyenti.....MANI.</p> <p>Shaya tandia sikhatsi lesincane. Thishela ushaya tandla aphindze ka- 6.</p> <p>Buta umbuto lotsi nguyiphi inombolo yekushaywa kwetandla lenyenti kakhulu/encane kakhulu.</p>	<p>Emanotsi (ngesikhatsi semdlao wemanti) nesanti (ngesikhatsi semdlao wemanti emgodzni wesanti) tindzawo letikahle tekuttufukisa lwati lwemtsamo.</p> <p>Imilolotelo yetinombolo nemaculo</p>	<p>Emanotsi (ngesikhatsi semdlao wemanti) nesanti (ngesikhatsi semdlao wemanti emgodzni wesanti) tindzawo letikahle tekuttufukisa lwati lwemtsamo.</p>	<p>2 emalanga Nobe Khetsa imisebenti lembili nobe lemitsattu</p>

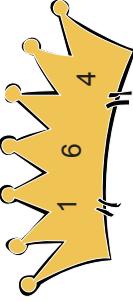
Liviki 27	Umsebenti munye loheliwi loholwa nguthishela (tikhatsi tetifundwo) Emaminiti ± 30 ngelilanga (Imisebenti yeTibalo ± 5 ngeliviki)		
Sihloko	Emanotsi lacacisako	Tinsita letiphakanyisiwe	Budze besikhasti lesilinganisiwe
4.4 Umtsamo/bungako	<p>Umnyakato</p> <p>Bafundzi:</p> <ul style="list-style-type: none"> Bahlela tintfo tekutsela letingenalutfo ngekwemtsamo wato. Ngalamanye emagama nguyiphi intfo yekutsela letawumumatsa lokunyenti kakhulu nobe lokuncane kakhulu? Bafundzi batawuhlu kucambela kwabo ngekutsela tinhomishi temanti kuletinntfo tekutsela bese babala kutsi nguyiphi letsatsa tinhomishi letinnyenti kakhulu. Ngeta inombolo yetintfo tekutsela kute ukwente kube lukhuni kakhulu. Bangasebentisa inkomishi lefanako njengesikalo bese batfola kutsi ngabe kutawutsatsa tingaki tinhomishi telialysi nobe emabhonji, nobeianti kugewalisila letintfo tekuphatsa letingenhla. Hela tintfo tekuphatsa teluhlubo lolufanako (sib. Emabhabkedti emgordzini wesanti) kusukela kulkuncane kuye kulkukhulu. Nika bafundzi tintfo tekutsela letahlukahlukene (emasayizi nabobunjwa labehlukene) bese ubuta imibuto lefana na: <ul style="list-style-type: none"> o “nicabanga kutsi nguyiphi yaletintfo tekutsela letsatsa umtsamo lomkhulu wesanti/emantti? o Umama utsela emanintti uwasusa entfweni yekutsela yinye uwaftaka kulenyi, combela kutsi utayigcwalisra yini?” Bafundzi abatfole kutsi kwentekani etweni yekuphatsa lecishe yagcwala nangabe tintfo letincane tifakwa kuyo sib. faka ematje lahlobile, emabhuuki elegi, emapulastiki sib.bafundzi benta imidhalo yekucombela lebacombela koyo kutsi nguyiphi intfo yekuphatsa lemumatsa lokunyenti bese bahiola imiphumela kute batfole kutsi ngubani lophumelele. (thishela uveta kutsi tintfo letintantako angeke tikuphazamisi kukhuphuka kwemanti). 	<p>Inkomishi</p> <p>Emabhortjisi</p> <p>Emabhakede langemasayizi lehlukene latfolakala emgordzini wesanti Tintfo tekuphatsa letehlukene ngesimo nangesayizi</p> <p>Emantti</p> <p>Isanti</p>	<p>Nobe Khetsa imisebenti lemibili nobe lemitsattu</p> <p>2 emalanga</p>

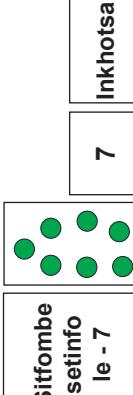
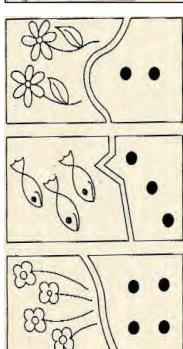
Liviki 28	Sikhatsi sekufundzisa lesiphakanyisive Umsebenti munye loheliwe loholwa nguthishela (tikhatsi tetifundvo) Emarminithi ± 30 ngelilianga (Imisebenti yeTibalo ± 5 ngeliviki)		
Sihloko	Emanotsi lacacisako	Tinsita letiphakanyisive	Budze besikhatsi lesilinganisiwe
1.1 Bala tintfo	<ul style="list-style-type: none"> Gcizelela Iwati lolutfolakelolelolatuka ekhatsi tinombolo 7 Temilomo: Bala tintfo letisetjentiswa malanga onkheonkhe urike ku-7. Bala uye phambili nasemuva urike ku-7. <p>Gcizelela Iwati Iwa “lokunyentni nalo kumbalwa”</p> <p>Shaya tandla emahlandla lamanyentiMANI</p> <p>Shaya tandla emahlandla lambalwa.</p> <p>Thishela ushaya tandla emahlandla layi 7</p> <p>Buta kutsi ngukuphi kushaya tandla lokube kunyentni/ mbalwaa.</p>	<p>Imilolotelo nemaculo etinombolo</p>	Lilanga 1
	<p>Umnyakato</p> <ul style="list-style-type: none"> Bafundzi lababili babitwa baye phambili. Lomunye umfundzi uyababala. Labafundzi labaphambili baphakamisa inombolo lehambelanako. Bitta lomunye umfundzi ete phambili. Labanye bafundzi bayababala. Munye umfundzi uphakamisa inombolo lehambelanako 3 Chubeka kuze kuge nebafundzi labayi -7 phambili. <p>Lokuphatsekako usebentisa tintfo letingemadaiyimenshini lamatsattfu (3-D)</p> <ul style="list-style-type: none"> Beka tikotela leti -7 emgenci sib. 	<p>Emakhadi etinombolo lafaka ekhatsi tinombolo 1 kuya ku-7</p> <p>Tikotela letiyi -7 letinanyatsiselwe tinombolo Inhanyelo nobe ematije</p> 	<p>Tikotela letiyi -7 letinanyatsiselwe tinombolo Inhanyelo nobe ematije</p> <p>Emakhilayoni nenkomishi</p> <ul style="list-style-type: none"> Bafundzi abafake inhanyelo/ litje esikoteleni sekucala, tinhanyelo/ ematije lamabili esikoteleni sesibili, tinhanyelo letintsattu esikoteleni sesitsattu bese uyachubeka tize letikotela letiyi -7 tibe nelinanai lenhanyelo/ ematje lelifana nenombolo lekhonjiwswe ngaphandle esikoteleni. Tsatsa emakhilayoni lamanyenti (lasemkhatsini wa 10 na 15) bese uwafaka enkomishini. Tjela bafundzi kutsi bacomebe kutsi mangaki emakhilayoni lasenkomishini. Cocsanani getimpwendvulo tabo. Khombisa kutsi kubalwa njanji ngekukhipha ngalinye esikoteleni bese abekwa emgenci.

Liviki 28	Sikhatsi sekufundzisa lesiphakanyisive Umsebenti munye loheliwe loholwa nguthishela (tikhatsi tetifundvo) Emarinithi ± 30 ngelilanga (Imisebenti yeTibalo ± 5 ngeliviki)	Emanotsi lacacisako	Tinsita letiphakanyisive	Budze besikhatsi lesilinganisiwe
1.3 Timphawu nemagama etinombolo	<ul style="list-style-type: none"> Bona inombolo neligama lenombolo lelfaka inombolo 7 <p>Lokubonakalako ungeke ukuphatse usebentisa bobunjwa labangemada-yimenshini lamabili (2-D) nobe tiffombe</p> <p>Diala umdalo:</p> <ul style="list-style-type: none"> - Bafundzi bahlala bente indiliinga. Beka likhaddinombolo libuke phasi phambi kwemfundzi ngamunye. (kungaba yinombolo, ligama lenombolo, likhadi lemacakashi nobe likhadisitfombe lelfaka tinhaka tnombolo 1 kuya ku-7) - Fundzisa bafundzi kundulisa likhadi liye kulomunye umfundzi ngekulishetelisa libuke phasi esiyilweni/ ekhaphethini - Bafundzi basno lamagama lalandzelako: "Nombolo lefihlakela, nombolo lefihlakela, kungaba nguyiphi ? Ase ngihole" - Bafundzi bahlola emakhadi abo. - Thsheila uphakamisa likhadinombolo lakhe - Bafundzi labanelikhadi lelfana nelikhadi lathshela, baphakamisa emakhadi abo bese batsi "Ngitawuphakamisa likhadi lami etulu kute wonkhe umuntu abone 	 <p>Sttombé setinfo letiyi - 7</p> <p>Inkhotsa</p> <p>7</p>	Lilanga 1	
3.2 Tintfo letingemada-yimenshini lamatsattfu (3-D)	<ul style="list-style-type: none"> Yakha intfo lengemadayimenshini lamatsattfu (3-D) usebentisa tintfo mbamba • Tsatsela lokwakhiwe lokusekhadini lelidwweitiwe nobe khadinisitfombe Lokuphatsekako usebentisa tintfo lettingemadayimenshini lamatsattfu (3-D) <p>- Bafundzi bakhha sakhiwo lesifanako nalesi lesisitfombeni</p> <p>- Tsatsela lesakhwiwo lesisitfombeni usebentisa iphegibhodi.</p> <p>Lokubonakalako ungeke ukuphatse usebentisa bobunjwa labangemada-yimenshini lamabili (2-D) nobe tiffombe</p> <p>Chubekisela lomsebenti kusifundvo Sebuciko bekubona wente</p> <p>Bafundzi:</p> <ul style="list-style-type: none"> - Niketa umfundzi ngamunye liphepha lelinabobunjwa labehlukene labancane nalabakhulu: tindillinga, bocalandze netikwele - Abajube labobunjwa bese bakha sakhwiw lesingemadayimenshini lamabili ephepheni bese uyatinamatelsisa - Abahlobise lesitfombe ngemidvwabo. 	<p>Bobunjwa be-Logi Emabhuholi e-Brainy Nobe yini intfo yekwakha Iphegibhodi</p>	<p>Lilanga 1 Lokuchubekako</p>	<p>Bobunjwa labehlukene labakhulu nalabancane labase maphepheni. Tindillinga, bocalantsatfu netikwele Tikelo, sinamatselisi</p>

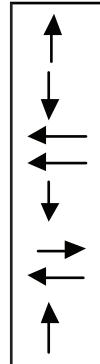
Liviki 28	Sikhatsi sekufundzisa lesiphakanyisive Umsebenti munye loheliwe loholwa nguthishela (tikhatsi tetifundvo) Emarinithi ± 30 ngelilanga (Imisebenti yeTibalo ± 5 ngeliviki)	
Sihloko	Emanotsi lacacisako	Tinsita letiphakanyisive Budze besikhatsi lesilinganisiwe
3.4 Umu<u>gca</u> lohu<u>kani</u>sa emkhatsini kufanane, kuliringane	<p>• Tfutufkisa likhono lekuwela umugca losemkhatsini esifubeni</p> <p>Umnyakato</p> <p>Bafundzi:</p> <ul style="list-style-type: none"> - Ababukete lwati lebalutfolle; batsintsia tiffo tabo temtimba ngekwesicondziso, badlala imidalo leyenta kutsi batsintsie tiffo tabo temtimba. - Baniketwa letinye ticondziso letibavumela kutsi bece umugca losemkhatsini esifubeni njengekutsi: tsintsa lidvolo lakho ngemphumulo, tsintsa liholmbe lakho ngendlebe yakho, tsintsa lidvolo lakho lesencie ngelunyawo lwakho lweskudla, tsintsa ingcoza yakho ngesandla sakho sinye njil <p>Lokuphatsekako usebentisa tintto letingemadai menshini lamatsattu (3-D)</p> <p>Bafundzi:</p> <ul style="list-style-type: none"> - Badvweba tindiliinga letinkhulu ebhodini - Badvweba imigca leondzile ebhodini. Cinisekisa kutsi bafundzi bayaweca imigca losemkhatsini esifubeni. - Ebhodini badvweba umugca losuka ecashatini linye uye kulelinye licashati lelikhashane nalo. - Badvweba sipohlongo lesivundile ebhodini. Abasebentise iminyakato lemikkulu kute bece umugca losemkhatsini esifubeni. <p>(Umfundzi usebentisa sandla sesencie neseckudla)</p> <p>Lokubonakalako ungeke ukuphatse usebentisa bobunjwa labangemadyimenshini lamabili (2-D) nobe tifombe</p> <p>Hlanganisa nesifundvo Sebuciko bekubona wente</p> <p>Bafundzi:</p> <ul style="list-style-type: none"> - Penda ephephendzabenri leliphindzekile kusuka esencete kuya esekudla. 	<p>Babona umugca lohuukanisa emkhatsini ngalokufanako nangalokulinganako kuye nasendzaweni</p> <ul style="list-style-type: none"> • Kuwela umugcamkhatsi <p>Bafundzi badvweba ebhodini</p>  <p>Liphephandzaba leliphindzekile lemfundzi ngamunye. Ipende nelibhulashi</p>

Liviki 28	Sikhatsi sekufundzisa lesiphakanyisive Umsebenti munye loheliwe loholwa nguthishela (tikhatsi tetifundvo) Emarinithi ± 30 ngelilanga (Imisebenti yeTibalo ± 5 ngeliviki)		
Sihloko	4.3 Sisindvo	Emanotsi lacacisako	Tinsita letiphakanyisiwe Budze besikhatsi lesilinganisiwe
	<p>Catsanisa angendela lelula ubuye uholele tintfo usebentisa Iwati magama oluranele kuchazza:</p> <ul style="list-style-type: none"> - Sisindvo sib. kulula, kuyasindza, kulula kakhulu, kusindza kakhulu. <p>• Ngerisa Iwati Iwesi sindvo ngekucatsanisa sisindvo setintfo letehlukene sib.</p> <p>Kukala sisindvo kusho kutfolu kutsi intfo inesisindvo lesingakanani.</p> <p>Umnyakato</p> <p>Bafundzi abacombele sisindvo setintfo.</p> <ul style="list-style-type: none"> - Bamba letintfo letilandzelako, kune esandleni sinye kute ucombele kutsi ngukuphi lokusindza kakhulu nalokulula kakhulu sib. o Litje nesitini sekvakha o Imoto yekudlala yepulasitiki nemoto yekudlala yensimbi o Sikotela seikhofi neroli yeliphepha lasendini lencane o Ibholia lenkhulu yeraba nebhola yekhillikitsi <p>Bafundzi baye bajaje kutsi intfo lenkhulu isindza kakhulu uma bacelwa kutsi bacombele sisindvo setintfo letimibili.</p> <ul style="list-style-type: none"> - Ngenisa sikalo sekulinganisa sib. Kala tintfo kubona kutsi ngubani bafundzi labatfole timphendulo letingito. - Buta imibuto lefana nekutsi: Nguyiphi intfo lesindza kakhulu/ lemelula kakhulu. Bafundzi abatfole intfo eklasini lesindndza kakhulu/lemelula kakhulu kunaloko lebakukallie. - Sikali sekulinganisa asibe khona ngesikhatsi sekudala kute bafundzi bachubeke nemsebenti wekukala. - Beka sikali sekulinganisa ekhoneni kute bafundzi babone kutsi mangaki emabhuloki e-Lego lasindza kulingana sibonelo: iihhabhula  <p>Khetsa imisebenti lembili nobe lemtisatfu</p> <p>Tintfo letingemadayimenshini lamaatsatfu (3-D) letinesisindvo lesehlukene nemasayizi lehlukene sib. Emabhuloki e-Lego, emathoyisi, emabhuloki ekwakha, tikotela, tintfo tekuphatsa njil.</p> <p>Sikali sekulinganisa</p> <p>Ungakha sikali lesilula:</p> <ul style="list-style-type: none"> - Utawudzinga ihenga yepulasitiki. - Tintfo tekuphatsa imajarini letiyindilingga, emabhodileia ekhokhakkholia laypulasitiki nentsambo - Bhobota tikhala letimbili ngala nangala etintfweni tekuphartsa imajarini/ emabhodileni ekhokhakkholia laypulasitiki - Hlanganisa letintfo tekuphatsa/ emabhodilela nehenga-utawuba nesikali - Lengisa lehenga esipikilini/ ehhukeni bese bafundzi Bacala kukala - Khombissa bafundzi kutsi ihenga kufanele icondze ngembi kwerkutsi bacale kukala. 	<p>Lilanga 1</p>	

Liviki 29	Umsebenti munye lohleliwe loholwa nguthishela (tikhatsi tetifundvo) Emaminiti ± 30 ngelilanga (Imisebenti yeTibalo ± 5 ngeliviki)	Sikhatsi sekufundzisa lesiphakanyisiwe	Budze besikhatsi lesilinganisiwe
Sihloko	Emanotsi lacacisako	Tinsita letiphakanyisiwe	Lilanga 1
1.3 Timphawu nemagama etinombolo	<ul style="list-style-type: none"> Bona inombolo neligama lenombolo letaka ekhatsi tinombolo -1 kuye ku-7 <p>Temilomo: Bala timffo letisetjentiswa malanga onkhe urike ku- 7. Bala uye embilia nasemuva urike ku- 7</p> <p>Gcizelela Iwati loluphatselene “nalomkunyenti nalokumbalwa”</p> <p>Shaya tandla kanyenti.....MANI.</p> <p>Shaya tandla sikhatsi lesinecane. Thishela ushaya tanda laaphindze ka- 7.</p> <p>Buta umbuto lotsi nguyiphi inombolo yekushaywa kwetandla lenyenti kakhulu/lencane kakhulu.</p> <p>Umnyakato</p> <ul style="list-style-type: none"> - Beka emakhaditinombolo ngekhatsi endlini nobe ngaphandle endzaweni yekudlala. - Lendzawo yibite ngekutsi “live letinombolo’ bese bafundi bona babitwa ngekutsi “ba Yikhosi/Indlovukati yenombolo.” Beka umchela lowakhwiwe ngelbhokisi emhloko yemfundzi ngamunye, lonetinombolo letibhalwe ngalokucacile. - Nika bafundi ticondziso letifana naleti: <ul style="list-style-type: none"> o Bonkhe bafundi labagcoke lokubovu abazubele ku- 2. o Bonkhe bafundi labanetinwele letindze, abahambe mantontolwane ku- 6. 	<p>Emaculo nemiloloteloyetinombolo</p> <p><input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>Emakhadi lanetinombolo letinkhulu</p> <p>Imichele lemlynienti yetinombolo umfundzi ngamunye leyakhwiwe ngemabhokisi lebhalwe tinombolo.</p> 	

Liviki 29	Umsebenti munye lohleliwe lohlowa nguthishela (tikhatsi tetifundvo) Emaminithi ± 30 ngelilanga (Imisebenti yeTibalo ± 5 ngeliviki)	Sikhatsi sekufundzisa lesiphakanyisiwe
Sihloko	Emanotsi lacacisako	Tinsita letiphakanyisiwe
1.3	Lokubonakalako ungeke ukuphatse usebentise bobunjwa labangemada-yimenshini lamabili (2-D) nobe tifombe	Budze besikhatsi lesilinganisiwe
Sihloko	<p>1.3 Timphawu nemagama etinombolo</p> <p>Bafundzi:</p> <ul style="list-style-type: none"> - Badvweba inombolo yemacashati balandzeta ticondziso tathishela sib. Dvweba emacashati la-2. Phindza ngetinombolo-1 kuye ku- 7 - Baba nemasethi lamanyenti emakhadinhombolo nemakhadigama lakhona. Nikau umfundzi ngamunye likhadi linye. Thishela uphakamisa likhadi bese bafundzi labanelikhadi lelfana nelakhe bayaliphakamisa nabo. - <i>Sipshakamiso</i>: Vumela bafundzi bahlanganye batakhe emakhadi abo. - Baddala imidhalo yekumataniisa emafleshikhadi etimphawu nemagama etinombolo. 	<p>Lilanga 1</p> <p>Liphepha nelikhilayoni</p> <p>Emasethi emakhadinhombolo lendula kuyinye lafaka ekhatsi tinombolo -1 kuye ku- 7 sib.</p>   <p>7</p> <p>Inkhotsa</p>  

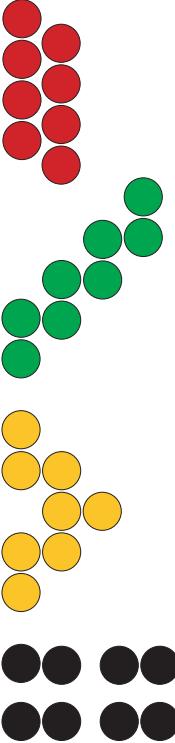
Liviki 29	Umsebenti munye lohleliwe lohlowa nguthishela (tikhatsi tetifundvo) Emaminithi ± 30 ngelilanga (Imisebenti yeTibalo ± 5 ngeliviki)	Sikhatsi sekufundzisa lesiphakanyisiwe	Budze besikhatsi lesilinganisiwe
Sihloko	Emanotsi lacacisako	Tinsita letiphakanyisiwe	Lilanga 1
1.7 Kuhlanganisa nekususa	<ul style="list-style-type: none"> Kubala lokushiwu ngemilomo lokutibalo tekuhlanganisa nekususa lokunetimpendvulo kufike ku-7 <p>Temilomo: Bala tintfo letisetjentiswa malanga onkhe urike ku- 7.</p> <p>Bala uye embili nasemuva urike ku- 7</p> <p>Gcizellel Iwati loluphatseline “naloikunyenti nalokumbalwa”</p> <p>Shaya tandla kamyenti.....MANI.</p> <p>Shaya tandla sikhatsi lesincane. Thishela ushaya tandla aphindze ka- 7.</p> <p>Buta umbuto lotsi nguyiphi inombolo yekushaywa kwetandla lenyenti kakhulu/lencane kakhulu.</p> <p>Umnyakato</p> <ul style="list-style-type: none"> - Buka emaviki 24 na 27 kute utfole lwati - Sebentisa imibono yakhko kute bafundzi batfole lwati ngenshokutsi yenombolo -7 ngekunyakatisa imitimba yabo. <p>Lokuphatsekako usebentise tintfo letingemadaiemenshini lamatsattu (3-D)</p> <ul style="list-style-type: none"> - Buka emaviki 24 na 27 - Sebentisa imibono yakhko kute bafundzi batfole lwati ngenshokutsi yenombolo -7 usebentise tintfo letiphatsekako letingemadaiemenshini lamatsattu (3-D) 	<p>Emaculo nemilolotelo yetinombolo</p>	

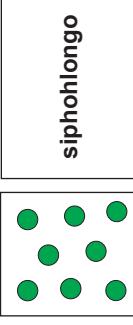
Sikhatsi sekufundzisa lesiphakanyisiwe			
Liviki 29	Umsebenti munye loheliwe loholwa nguthishela (tikhatsi tetifundo) Emaminiti ± 30 ngelilanga (Imisebenti yetibalo ± 5 ngeliviki)	Emanotsi lacacisako	Tinsita letiphakanyisiwe
Sihloko	Budze besikhatsi lesilinganisiwe		
3.1 Kubebeka, kutetaryeta nekubukeka	<ul style="list-style-type: none"> Tifufukisa lwati Iwenkhombandlela ngekusebentisa emafleshikhadi emicibisholo nemashadi emicibishilo <p>Umnyakato</p> <p>Bafundzi abahambé bacondze etindzaweni letehlukene:</p> <ul style="list-style-type: none"> - Baya emnyango, - Baya efasitelweni, - Baya ekhoneni lemabhuu njil. <p>Lokuphatsekako usebentise tintfo letingemadaiyimenshini lamatsatfu (3-D)</p> <p>Bafundzi</p> <ul style="list-style-type: none"> - Badvweba siphohlongo lesivndlile ebhodini. Cinisekisa kutsi bafundzi bengca umugca losemkhatsini sib. 	<p>Lilanga 1</p> <p>Ibhodi</p>	
	<p>Lokubonakalako ungeke ukuphatse usebentise bobunjwa labangemada-yimenshini lamabili (2-D) nope tifombe</p> <p>Bafundzi ngamunye nobe ngemacembu benta loku:</p> <ul style="list-style-type: none"> - Emehlo abuka ifleshi khadi bese unambisa umkhono awuyise lapho umcibisholo ukhombe khona bsese uyakhulumu ngsikatsi enta lomnyakato sib. Nangabe umfundzi akhipha umkhono, kumele atsi "sekudia". - Kuminyakato leya etulu naphasi umfundzi angasabentisa nobe nguwuphi umkhono. - Khomba tinhombandela eshadini lemicibisholo. - Banamatsiseila tifombe tetinyatselo tibuke emnyango. <p>Lwatinagama: etulu/phasi; ekhatsi/ngephandle; ngetulu/ngephasi ; phambili/emuva ; ngembi kwe/ ngemuva; luhangotsi lunye/olunye luhangotsi; eceleni kwe;sancele nesekudia</p>	<p>Ifleshikhadi lenemcibisholo munye. Gucula ifleshikhadi uyibukise etindzaweni letehlukene</p> <p>Lishadi letinkhomba (iphosta lenemcibisholo lekhombe etindzaweni letehlukene)</p> 	

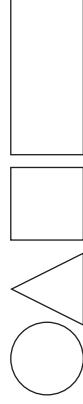
Liviki 29		Sikhatsi sekufundzisa lesiphakanyisiwe Umsebenti munye loheliwe loholwa nguthishela (tikhatsi tetifundo) Emaminiti ± 30 ngelilanga (Imisebenti yeTibalo ± 5 ngeliviki)			
Sihloko	4.3 Sisindvo	Emanotsi lacacisako	Tinsita letiphakanyisiwe	Budze besikhatsi lesilinganisiwe	
<p>Umnyakato</p> <p>Bafundzi:</p> <ul style="list-style-type: none"> - Bacatsanisa sisindvo setintfo tekuphatsa letintsaftu kuye kuletisihlanu letifanako/letilinganako (sib tikotela letengenalutfo letingu- 400g) leticuketse silinganiso lesingafani sesanti, kute tisindvo tabo tehluke. - Batibeka ngekuhleleka bacale kulkumalula kakhulu kuye kulokusindza ngekuva lesisindvo. Ngemuva kwaloko sikalo sekulinganisa singasetjentiswa kuffola kutsi bafundzi ngabe bebacinisile nobe cha <p>- <i>Siphakamiso:</i> Yenta kute ubone kutsi tingaki tinsimbi lekuwasha nobe tipikili letingasinyiswa kute ube nesilinganiso lesifanako. Naletinye tintfo tingasetjentiswa.</p> <p>Thishela ufaka tintfo letinesisindvo lesehukulek etintifweri tekuphatsa letifanako sib., tintfo letimbili letiphatса ishizi ; ynye ibe nebholoki nayinye lenebhola yethensi.</p> <p>Bafundzi:</p> <ul style="list-style-type: none"> - Beva umehluko emkhatsini wesisindvo setintfo letimbili bese bacombela kutsi ngukuphi lokusindza kakhulu nobe lokumalula kakhulu. - Basebentisa sikali sekulinganisa kute batfole imphendvulo lengyo. - Gcugcutela bafundzi kutsi batfole tintfo letinesisindvo lesifanako eklassini. <p>Umgodzi wesanti nendzawo yekudala ngemanti kutindzawo letibalulekile lokufanele tisetjentiswe kute kugcizelwelwe emagama lafana nalawa kumalua/kuyasindza/ kusindza kakhudiwane usebentise tintfo tekuphatsa letehlukene, Isanti leyomile nalementi.</p> <p>CAPHELA: Hiala nebafundzi ngesikhatsi ukhuluma, nicoca nangeskhati uchaza.</p>	<p>Gcizelela lwati lolutfole evikini le- 28 lolufaka silinganiso: Kumalula kakhulu/ kusindza kakhulu</p> <p>Umnyakato</p> <p>Bafundzi:</p> <ul style="list-style-type: none"> - Bacatsanisa sisindvo setintfo tekuphatsa letintsaftu kuye kuletisihlanu letifanako/letilinganako (sib tikotela letengenalutfo letingu- 400g) leticuketse silinganiso lesingafani sesanti, kute tisindvo tabo tehluke. - Batibeka ngekuhleleka bacale kulkumalula kakhulu kuye kulokusindza ngekuva lesisindvo. Ngemuva kwaloko sikalo sekulinganisa singasetjentiswa kuffola kutsi bafundzi ngabe bebacinisile nobe cha <p>- <i>Siphakamiso:</i> Yenta kute ubone kutsi tingaki tinsimbi lekuwasha nobe tipikili letingasinyiswa kute ube nesilinganiso lesifanako. Naletinye tintfo tingasetjentiswa.</p> <p>Thishela ufaka tintfo letinesisindvo lesehukulek etintifweri tekuphatsa letifanako sib., tintfo letimbili letiphatса ishizi ; ynye ibe nebholoki nayinye lenebhola yethensi.</p> <p>Bafundzi:</p> <ul style="list-style-type: none"> - Beva umehluko emkhatsini wesisindvo setintfo letimbili bese bacombela kutsi ngukuphi lokusindza kakhulu nobe lokumalula kakhulu. - Basebentisa sikali sekulinganisa kute batfole imphendvulo lengyo. - Gcugcutela bafundzi kutsi batfole tintfo letinesisindvo lesifanako eklassini. <p>Umgodzi wesanti nendzawo yekudala ngemanti kutindzawo letibalulekile lokufanele tisetjentiswe kute kugcizelwelwe emagama lafana nalawa kumalua/kuyasindza/ kusindza kakhudiwane usebentise tintfo tekuphatsa letehlukene, Isanti leyomile nalementi.</p> <p>CAPHELA: Hiala nebafundzi ngesikhatsi ukhuluma, nicoca nangeskhati uchaza.</p>	<p>Lilanga 1</p> <p>Tikotela letingenalutfo letilinganako</p> <p>Sikalo sekulinganisa</p> <p>Tintfo letingemabholuki eLego</p> <p>Tintfo letinesisindvo lesehukune letifana netinsimbi tekuwasha netipikili</p> <p>Tintfo letimbili tekuphatsa ishizi; ynye ibe nebholoki lenye ibe nebholika yethensi</p>	<p>Budze besikhatsi lesilinganisiwe</p> <p>Umgodzi wesanti</p> <p>Libhavu lelinemanti lekudala, info yekuphatsa.</p>		

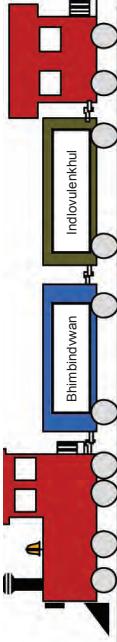
Liviki 30	Sebentisa liviki le -30 kunaka butsakatsaka belwati Iwetibalo/ kutfola tihibe tekufundza.	Indela yekuhloa
Umkhakha walokucuketfwe	Sihloko	
Tinombolo timphawu tekubala nebudieliwane	Kubala tintfo	Ucombela abuye abale ngenthloko kufika ku -7 (emaculo etinombolo nemilolotel nemakhiwe kutuftukisa lwati iweninombolo) Ubala aye emuva napahambili (1-7)
		Wati kutsi ngukuphi kushaya tandla lokunyenti/ lombalwa
		Ubona tinombolo kutingcikitsi letetayelekile sib. Budzala, irejista (holia futsi)
		Uffola emakhaditifombe nemakhati lanemacashati lafika ku -7
		Wati tinombolo 5, 6, 7
		Uffola lamagama etinombolo, sihanu, stifupha, inkhotsa
		Uyakwati kuhluukanisa emkhatsini walokunyenti, lokumbalwa, lokulinganako kufika ku -7
		Ubona umbala netiliwane letehlukene emalini yemaphephra yaseNingizimu Afrika
		Usebentisa tinsita letiphatsekako
		Uchaza imicabango yakhe ngemagama nangemidvwewe nobe tintfo letiphatsekako
		Utsatsela, achubele embili abuye atakhele emaphethini asebentisa tifombe.
Emaphethini nemafangishini Sikhala nabunjwa (Ijomethri)	Kuhlanganisa nekukhipha	Uyakwati kuhlanganisa emaphazlii lanetincetu lokungenani leti -18
	2.1	
	Emaphethini e-Jomethri	Wati kubekeka kuentfo nangabe icatsaniswa naletye. Phambi kwe-, emuva, etukwe-, etulu, ngaphasi, eceleni kwe-, emkhatsini, esencele, esekudla.
	3.1	Wienta lokushiwo ticondziso ebhodini yemaphhekisi
		Wati tinkhombandela letisekhadini lemicibisholo
	3.2	Wakha asebentisa sibonelo sesakhwiw lesiniketiwe
	Tintfo letingemadayimenshini lamabili (2-D)	UTsatsela lokwakhwiw nobe lokusekhadini letifombe.
	3.3	Wakha lokungenani iphazili yetincetu leti -18
	Bobunjwa bemedayimenshini lamabili (2-D)	Ubona, utfola abuye anike emagama etikwele
	3.4	Wati bobunjwa labafanako labanebuledlwane
		Ucombela abuye akale budze betintfo letenlukene
Silinganiso	4.2	
	Budze	
	4.3	Uvisisa: lokulula, lokusindzako, lokulula kakhulu, lokulula kakhulu, lokusindza kakhulu.
	Sisindvo	
	4.4	Uvisisa: longenalutfo, lokungcwele, lokunyenti kuna-, lokuncane kuna-
	Umtsamo	
	5.1	Uyakhona kugcogca, kuhlunga, kudvwewba, kufundza nekukhomibia (ahlunge) tintfo ngekweluphawu lunye.
	5.2	Kumela tintfo letigcogiwe letihlungiwe
Kusebenta ngedatha	2.3	Ucoca abuye abike ngetintfo letigcogiwe letihlungiwe

Liviki 31		Sikhatsi lesiphakanyisiwe sekufundzisa: Umsebenti munye welikiasi oheliwei loholwa nguthishela (tikhatsi tetifundvo) emaminithi ± 30 ngelilanga(lmisebenti yetibalo ± ngeliviki)		ITHEMU 4 TIBALO LIBANGA R	
Sihloko		Emanotsi lacacisako	Tinsita letiphakanyiswe	Budze besikhatsi lesilinganiswe	
1.1 Bala tintfo	Tfula inshokutsi yenombolo 8 Temlomo: Bala tintfo onkhe malanga ufile e 8 Bala uye emuva naphambili ufile e 8 Bala ngemhloko 1-10	Kungenisa kubala ngakubili usebentisa imilolotelo. Gcizelela kubala ngekuhieleka: Thishela upaka tintfo letine emigceni abe akhomba kwekucala ,kwesibili,kwesitsatfu, kwesine	Niketa Iwati lwa “Kanyenti na mbalwa” Shaya tanda kanyenti MANI. Shaya tanda kambalwa. Thishela ushaya ka 8 . Buta umbuto wekushaya tanda kutsi bekukanyentii/kancane.	<i>Kubili,kune,situpha</i> <i>Yinye indvoda egedeni</i> <i>Itsi seyishiye sikhatsi;</i> <i>Kubili,kune,situpha,siphohlongo</i>	Lilanga 1
		Ummiyakato Bafundzi ba: - Babala tinyatselo letisipphohlongo bahamba batungeletele liklasi - Khomber inombolo 8.	Bafundzi ba: - Sebentisa sitepsi setinombolo lesifulethi (kuvundla) - Cinisekisa kutsi ngasosonke sikhatsi bafundzi bacala ku . - Kubona tinombolo timphawu njengoba bahamba kunombolo layini.	0 1 2 3 4 5 6 7 8	Lisethi lemakhadi tinombolo 1 kuya ku-8.

Liviki 31	Sikhatsi lesiphakanyisiwe sekufundzisa: Umsebenzi munye welikiasi ioheliwe loholwa nguThishela (tikhatsi tetifundvo) emaminithi ± 30 ngelilanga(misebenzi yetibalo ± ngeliviki)	Budze besikhatsi lesilinganisive
Sihloko	<p>Emanotsi lacacisako</p> <p>Kubona tinombolo timphawu netinombolo magama</p> <p>Lokuphatsekako usebentisa tintfo letingemadayimenshini lamatsattu (3-D)</p> <p>Bafundzi:</p> <ul style="list-style-type: none"> - Babala tintfo kufaka tinombolo 1 ku e 8. - Babala tibali kuyofika ku-8. <p>- Kututukisa lwati iwekubekaka kwetinombolo ngekutsi bafundzi bavunyelwe kupaka tibali leti 8 nobe tintfo ngetindlela letehlukene sib.</p>  <p>- Nangabe ubala inombolo yetintfo ayitsintseki ngesayizi yayo nobe ngendza nobe ifanana kuma kwayo, sib.</p> <p>- Hlela tinkinobho leti 8, emapeniseli la 8, emahhulahhubhu la 8, bafundzi laba 8 njll.</p> <p>- Tibale ngetindlela letehlukene sib. Tibale tindlalekile, tibekе ndzawonye, emgceni nobe utibeke tincumbi</p> <p>Lokubonakalako ungeke ukuphatse usebentisa bobunjwa labangemada-yimenshini lamabili (2-D) nobe tifombe</p> <p>Let the bafundzi:</p> <ul style="list-style-type: none"> - Badla umdla ngekumatanisa inombolo yetibali,ngetinombolo magama,tinombolo timphawu,emasashainemakhadi tifombe kufakwa inombolo 8 . - Batsatsela 8 ngemakhilayoni.. 	<p>Tinsita letiphakanyiswe</p> <p>Lisethi letintfo eklassini Tintfo nobe tibali.</p> <p>Tibali nobe tintfo le 8</p> <p>Titfombe tetinfo le 8</p> <p>8</p> <p>siphohlongo</p> <p>Lilanga 1</p> <p>Lilanga 1</p> <p>Lilanga 1</p>

Liviki 31	Sikhatsi lesiphakanyisiwe sekufundzisa: Umsebenzi munye welikiasi i ohleiwi loholwa nguThishela (tikhatsi tetifundvo) emaminithi ± 30 ngelila (misenbenzi yetibalo ± ngeliviki)		
Sihloko	Emanotsi lacacisako	Tinsita letiphakanyiswe	Budze besikhatsi lesilinganiswe
1.4	<p>Chaza, catsanisa bese uhela tinombolo letiphele</p> <ul style="list-style-type: none"> Sebenitsisa inombolo 8 etindzaweni letetayelekile <p>Temlomo: Bala ye 8 kuto tonkhe tintfo. Bala uye emuv naphambili ka 8 Gcizelela kubala ngakubili usebenitise imilolotelo yetinombolo.</p> <p>Niketa Iwati Iwa “kunyenti mbalwa”</p> <p>Shaya tanda kanyenti MANI.</p> <p>Shaya tanda tikhatsi letimbalwa. Thishela ushaya kasi- 8 .</p> <p>Buta umbuto wekushaya tanda kutsi bekukanyentii/kancane</p>	<p>Emaculo nemilolotelo yetinombolo</p>	Lilanga 1
	<p>Umnyakato</p> <p>Bafundzi ba:</p> <ul style="list-style-type: none"> - Bakha inombolo 8 ngeminiwe - Yakha inombolo ngetinetu tetintsambo nobe ludzaka Iwekulala - Babhala luphawunombolo 8 etreyini yesanti. - Beka emalkhaditinombolo letisi- 8 ngetindlela letilandzelanako <p>Lokuphatsekako usebenitsa tintfo letingemadayimenshini lamatsattu (3-D)</p> <p>Thishela uniketa umfundzi ngamunye ibhinibhegi la 8 nemakhadi nombolo laneikhadi lemakashati la-8 .</p> <p>Bafundzi ba:</p> <ul style="list-style-type: none"> - Beka libhontjisi kulinye licashati etulu lelikhadi lemakashata. - Bala emabhortjisi. - Matanisa likhadi lemakashati nelikhadi lemagama netibali 	<p>Intsambo/intsonffo nobe ludzaka Iwekulala.</p> <p>itreyi yesanti</p> <p>Lisethi letinombolo timphawu letinkhulu</p> <p>Emabhortjisi la 8 ngamunyeumfundzi.</p> <p>Likhadinlemacashhat netibali</p> <div style="border: 1px solid black; padding: 5px; text-align: center;">  <p>siphohlongo</p> </div>	

Liviki 31	Sikhatsi lesiphakanyisiwe sekufundzisa: Umsebenzi munye welikiasi oheliwei loholwa nguThishela (tikhatsi tetifundvo) emaminithi ± 30 ngelila (misenbenti yetibalo ± ngeliviki)	Budze besikhatsi lesilinganisive Lilanga 1
Sihloko	Emanotsi lacacisako 3.3 Bobunjiwa labangemada-yimenshini lamabili (2-D) <ul style="list-style-type: none"> - Calandze • Ngenisa calandze • Umnyakato <p>Bafundzi benta loku:</p> <ul style="list-style-type: none"> - Bafundzi bakha calandze ngemitimba yabo sib, bafundzi laba-6 bakha calandze ngemitimba yabo. - Bakha bobuniwa ngemitimba yabo sib.bafundzi laba 6 benta icalandze ngemitimba yabo (bafundzi laba 6). - Bakha calandze ngetingalo. - Bakha calandze ngetintsañana tewulu neinhlama. - Hamba ngaphandle kwacalandze. Nabahamba bafundzi btsi: "Ngihamba ngaphandle kwacalandze- "Linye licala lelidze, linye licala lefissha nalelinye futsi lelidze, nalelinye lefissha." - Bamba bobuniwa. Sebentisa bobuniwa labakhulu nobe ufake bobuniwa labahlukene "esikhwameni sefeli" Babe nelisethi lemakhadi ekumatanisa nabobunjwaleb lababhalive emakhadini. Dweba calandze emoyen, phasi, emhabatsini ubuye baya ephepheni. 	Tinsita letiphakanyiswe Umdalao wemakhadi kutfutufukisa bobuniwa Intsonfo nenhlama yekudala. "sikhwama sefeli" lesinabobunjiwa bejometri. Kumatanisa lisethi lemakhadi abobunjwa lebakishwa esikhwameni. Liphepha le A4 nemakhilayoni.
Sihloko	Kubona utole, ubuye usho emagama abobunjiwa bemadayimenshini lamabili (2-D) lasekilasini nasesifombeni <ul style="list-style-type: none"> • Ngenisa calandze <p>Bafundzi benta loku:</p> <ul style="list-style-type: none"> - Bafundzi bakha calandze ngemitimba yabo sib, bafundzi laba-6 bakha calandze ngemitimba yabo. - Bakha bobuniwa ngemitimba yabo sib.bafundzi laba 6 benta icalandze ngemitimba yabo (bafundzi laba 6). - Bakha calandze ngetingalo. - Bakha calandze ngetintsañana tewulu neinhlama. - Hamba ngaphandle kwacalandze. Nabahamba bafundzi btsi: "Ngihamba ngaphandle kwacalandze- "Linye licala lelidze, linye licala lefissha nalelinye futsi lelidze, nalelinye lefissha." - Bamba bobuniwa. Sebentisa bobuniwa labakhulu nobe ufake bobuniwa labahlukene "esikhwameni sefeli" Babe nelisethi lemakhadi ekumatanisa nabobunjwaleb lababhalive emakhadini. Dweba calandze emoyen, phasi, emhabatsini ubuye baya ephepheni. <p>Hlunga tintfo temadayimenshini lamatsatfu (3-D) nabobunjiwa bemadayimenshini lamabili (2-D) ngekwasayizi, umbala nangekubunjwa</p> <p>Lokuphatsekako usebentisa tintfo letingemadayimenshini lamatsatfu (3-D)</p> <p>Bafundzi babuka tintfo letibocalandze eklasini .</p> <p>Kubona tinombolo timphawu netinombolo magama</p> <p>Lokuphatsekako usebentisa tintfo letingemadayimenshini lamabili (2-D)</p> <ul style="list-style-type: none"> - Buka bocalandze etitfombeni. - Buka bonkhe bobuniwa labatfullive kahle ngetitfombe. <p>Hlunga tintfo letingemadayimenshini lamatsatfu (3-D) nabobunjiwa labangemada-yimenshini lamabili ngemasyizi ngembala ngekubunjwa.</p> <p>Hlunga tintfo letigcogcekile ngemasayizi, ngembala nabobunjiwa.</p>	Budze besikhatsi lesilinganisive Tintfo letibocalandze eklasini. Bonkhe bobuniwa labafundziwe bakhona: Titfombe letinabobunjiwa. 

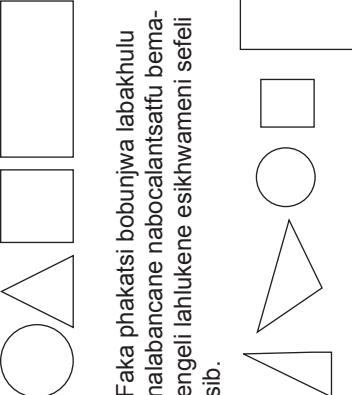
Liviki 31	Sikhatsi lesiphakanyisiwe sekufundzisa: Umsebenzi munye welikiasi lheliwe loholwa nguThishela (tikhatsi tetifundvo) emaminithi ± 30 ngelialanga(misebenzi yetibalo ± ngeliviki)	Emanotsi lacacisako	Tinsita letiphakanyiswe	Budze besikhatsi lesilinganisive																				
Sihloko	<p>5.1 Kugcogca nekuhunga tintfo</p> <p>Gcogca ubuye uhlunge idathá</p> <ul style="list-style-type: none"> Kusebenntisa lishadi letinsuku, Lusuku lwabani ngaleyeyo nyanga. Bafundzi basita ngekwenta igrafu kubuka tinyanga temnyaka letinetsuku tekutalwa kwebafundzi. Thishela udvweba igrafu yetinyanga temnyaka. Ngekusitwa nguthishela bafundzi bafaka emagama abo egrafini lekhomba inyanga lebekutalw ngayo. 		Lishadi letinsuku tekutalwa																					
5.2 Lokudwetiwe lokuveta tintfo letigcogiwe letihlelele	<p>5.2 Lokudwetiwe lokuveta tintfo letigcogiwe letihlelele</p> <table border="1"> <thead> <tr> <th>Bhimbindwana</th> <th>Indlovana</th> <th>Indlovulenkhulu</th> <th>Matasa</th> <th>Inkhwekhweti</th> <th>Inhlaba</th> <th>Kholwane</th> </tr> </thead> <tbody> <tr> <td>Sipho Martha Helen Dolly</td> <td>David Bongi Claire</td> <td>Nelson Jacob Tim</td> <td>Kabelo Pat Thandi</td> <td>Selina Liz Titus</td> <td>Thabo Jane</td> <td></td> </tr> <tr> <td>4</td> <td>3</td> <td>0</td> <td>3</td> <td>3</td> <td>3</td> <td>2</td> </tr> </tbody> </table> <ul style="list-style-type: none"> Bafundzi babala emagama ubuye babhala samba sebafundzi lebabungata tinsuku tekutalwa ngaleyonyanga.Bafundzi bacatsani tinombolo letikhona tetinsuku tekutalwa etinyangeni. Bafundzi bacatsanisa tinombpolo tetinsuku tekutalwa kuletinyanga letehlukene. <p>Thishela ubuta imibuto njengekutsi:</p> <ul style="list-style-type: none"> "Nguyiphi inyanga lenetinsuku tekutalwa letinyenti?" "Nguyiphi inyanga lenetinsuku tekutalwa letinyenti?" "Ngutiphi tinyanga letinetretinsuku tekutalwa letifananako? tiyalangana. "Ngutiphi tinyanga letinebfafana labanyenti lababungata tinsuku tekutalwa ?" "Ngutiphi tinyanga letinemantombatane lamanyenti lababungata tinsuku tekutalwa ?" 	Bhimbindwana	Indlovana	Indlovulenkhulu	Matasa	Inkhwekhweti	Inhlaba	Kholwane	Sipho Martha Helen Dolly	David Bongi Claire	Nelson Jacob Tim	Kabelo Pat Thandi	Selina Liz Titus	Thabo Jane		4	3	0	3	3	3	2	Dwweba emakholamu la-12 khombisa ngefleshikhadi kutsi bobani bafundzi lebabungata tinsuku tekutalwa .Sebentisa ± 3 lipnepha A2 lelinemakholami la -12.	
Bhimbindwana	Indlovana	Indlovulenkhulu	Matasa	Inkhwekhweti	Inhlaba	Kholwane																		
Sipho Martha Helen Dolly	David Bongi Claire	Nelson Jacob Tim	Kabelo Pat Thandi	Selina Liz Titus	Thabo Jane																			
4	3	0	3	3	3	2																		
5.3 Kucoca nembiko ngetintfo letigcogiwe tabuye tahlungwa	<p>5.3 Kucoca nembiko ngetintfo letigcogiwe tabuye tahlungwa</p> <p>Bafundzi bacoca ngetiphefto:</p> <ul style="list-style-type: none"> Bhimbindwane unetinsuku tekutalwa letinyenti. Bafundzi labane babungata tinsuku tekutalwa ngabhimbindvwane. Kute (akunamuntu) lobungata lusuku lwekutalwa ngenyanga yendlovu lenkhulu. Letinye tinyanga tinetinsuku tekutalwa letilnganako njii. Ngutiphi leto tinyanga? Letinye tinyanga tinetinombolo letilnganako tetinsuku tekutalwa njii. Ngutiphi leto tinyanga? 																							

Livki 32	Sikhatsi lesiphakanyisiwe sekufundzisa: Umsebenti munye welikiasi loheliwi loholwa nguthishela (tikhatsi tetifundo) emaminithi ± 30 ngelilianga (imisebenti yetibalo ± ngeliviki)		
Sihloko	Emanotsi lacacisako	Tinsita letiphakanyiswe	Budze besikhatsi lesilinganisive
1.1 Bala tintfo	<ul style="list-style-type: none"> Gcizelela Iwati lottolakele evikini le 8 lelifaka inombolo 8 <p>Ngemlomo: Bala tintfo onkhe malanga urike e- 8 Bala uye emuva naphambili urike e- 8 Bala ngenhloko 1-10</p> <p>Gcizelela kubala ngakubili usebentise imilolotelo yetinombolo.</p> <p>Niketa Iwati Iwa “Kanyenti na kube mbalwa”</p> <p>Shaya tandla kanyenti MANI.</p> <p>Shaya tandla kambalwa. Thishela ushaya ka 8 .</p> <p>Buta umbuto wekushaya tandla kutsi bekukanyenti/kancane.</p>	<p>Emaculo nemilolotelo yetinombolos</p>	Lilanga 1

Livki 32	Sikhatsi lesiphakanyisiwe sekufundzisa: Umsebenti munye welikiasi loheliwe loholwa nguThishela (tikhatsi tetifundvo) emaminithi ± 30 ngellilanga(lmisebenti yetibalo ± ngeliviki)	Budze besikhatsi lesilinganisive
Sihloko	Emanotsi lacacisako	Tinsita letiphakanyiswe
1.1 Bala tintfo	<p>Lokuphatsekako usebentisa tintfo letingemadayimenshini lamatsattu (3-D)</p> <p>Bafundzi:</p> <ul style="list-style-type: none"> - Basebntisa tiba kubona kutsi nguyiphi inombolo licala kucala ku-8 nasemuva kwa 5? Nguyiphi inombolo lesemkhatsini ve 6 ne 8? - Bala tintfo ngatimbili. <ul style="list-style-type: none"> o Lipheya leticatfulla, emakawosi o Lipheya leticatfulla, emacici o Emehlo lamabili, o Lipheya lemaci o Tindlebe letimbili o Imilente lemibili <p>Lokubonakalako ungeke ukuphatse usebentisa bobunjiva labangemada-yimenshini lamabili (2-D) nobe titfombe</p> <ul style="list-style-type: none"> - Nangabe thishela atsatsa irejista utsi Ukhona yini umfundzi lone nombolo yendlu yakubo nobe likheli lakubo ? Bafundzi kumele baphendvule ngekutsi "Lapha" - Phindza ngellilanga lellandzelakongetinombolo telucingo Iwasendlini nabomakhala ekhikhini. 	<p>Lilanga 1</p> <p>Tibali</p> <p>Lipheya leticatfulla, emakawosi</p> <p>Likhadi lelinetincingo nemakheliebafundzi</p>

Livki 32	Sikhatsi lesiphakanyisiwe sekufundzisa: Umsebenti munye welikasi loheliwi loholwa nguThishela (tikhatsi tetifundvo) emaminithi ± 30 ngelilanga(lmisebenti yetibalo ± ngeliviki)	
Sihloko	Emanotsi lacacisako	Budze besikhatsi lesilinganisiwe
1.7 Kuhlanganisa nekususa	<p>• Catulula ngemolomo tinkinga tetibalo temagama (tibalo tetindza ba) letifaka inombolo 8</p> <p>Umnyakato</p> <ul style="list-style-type: none"> - Thishela usita bafundzi kwenta emacembu la 2 lanebafundzi laba 6 . - Hlanganisa lamacembu kwente licembu linye. - Buta bafundzi kutsi bangaki ecenjini leihlanganisiwe? 6 na 2 → 8.(Thishela atsi: 6 na 2 kukunika 8) - Enta licembu lebafundzi la 8. Khipha bafundzi la 3 bentte licembu lelincane. Bngaki bafunzi lebaselle ecenjini lelikhulu? 8 ukhiphe 3 → 5. - Khetsa bafundzi usebentise umlolotelolo wekubala. - Beka tintsi leti →4 esandleni semfundzi nalamanye la 4 esandleni salomunye umfundzi. Tingaki tintsi setitonkhe? 4 na 4 → 8. <p>Lokuphatsekako usebentisa tintfo letingemadayimenshini lamatsattu (3-D)</p> <p>Niketa bafundzi laba 8 emagala.</p> <ul style="list-style-type: none"> - Tshidi unetintsi leti -6 umngani wakhе unetintsi leti -2. Tingaki tintsi setitonkhe? 6 na 2 → 8. - Monica unetintsi leti -8. Ulahlekewla nguleti -2. Tingaki tintsi letisele naMonica? 8 ukhiphe 5 → 3. <p>Lokubonakalako ungeke ukubambe usebentisa bobunjya labangemada-yimenshini lamabili (2-D) nobe titfombe</p> <ul style="list-style-type: none"> - Thishela ubeka titfombe letimbili kufanelibhodi. Ungeta letinye titfombe letisilhanu. Sekunatingaki titfombe nyalo ? 2 na 5 → 7. - Faka bobunjya 8 ebbodini yefulaneli. Khipha 5. Bangaki lebasele 5 → 3. 	<p>Lilanga 1</p> <p>Licembu lebafundzi</p> <p>Tintsi</p> <p>Umlolotelolo wekubala</p> <p>Tintsi</p> <p>Umlolotelolo: 1, 2, 3, 4, 5</p> <p>Nangabe ngingabamba imhlanti iphila 6, 7, 8, 9, 10</p> <p>Ubuye niyayiyekela ihambe</p> <p>Tintsi</p> <p>Ibhodi yefulaneli netitfombe / bobunjwa.</p>

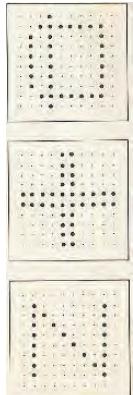
Livki 32	<p>Sikhatsi lesiphakanyisiwe sekufundzisa: Umsebenti munye welikiasi loheliwi loholwa nguThishela (tikhatsi tetifundvo) emaminithi ± 30 ngelilianga(lmisebenti yetibalo ± ngeliviki)</p>		
Sihloko	<p>Emanotsi lacacisako</p> <p>2.1 Emaphethini e-Jomethri</p> <ul style="list-style-type: none"> • Tsatsela uchubekise emaphethini ekuba <p>Umnyakato</p> <p>Bafundzi bahamba ngesigci semculo ngemitimba yabo sib.</p> <ul style="list-style-type: none"> - Nyatsela, nyatsela, zuba ngelinyawo, Zuba ngelunyawo - Zuba ngalunye lunyawo, Zuba ngalunye lunyawo, Zuban galunye lunyawo, Zuba ngalunye lunyawo..... <p>Lokuphatsekako usebentisa tintfo letingemadymenshini lamatsattfu (3-D)</p> <p>Hlanganisa nemakhono ebuciko bekwenta (umculo) neMakhono ekuphila.</p> <p>Bafundzi bahamba ngemculo ngetandia tabo ubuye babamba ematsangeni. Sib..</p> <ul style="list-style-type: none"> - Shaya tanda, shaya tanda, shaya tanda, shaya tanda (ubuye bashaya tanda ematsangeni) - Thishela wenta emakhadi esigci ubuye bafundzi bayaphindza ngekushaya tanda(basebashaya tanda,bashaye lunyawo). <p>Sib.</p>	<p>Tinsita letiphakanyiswe</p> <p>Budze besikhatsi lesilinganisiwe</p> <p>Sidilama-CD Ngemculo</p>	<p>Lilanga 1</p> <p>Umsindvo wekushayisana kwetitfo temimba</p>

Livki 32	Sikhatsi lesiphakanyisiwe sekufundzisa: Umsebenti munye welikasi loheliwe loholwa nguthishela (tikhatsi tetifundvo) emaminithi ± 30 ngelilianga (Imisebenti yetibalo ± ngeliviki)	
Sihloko	<p>Emanotsi lacacisako</p> <p>3.3 Bobunjwa labangemada-yimenshini lamabili (2-D)</p> <ul style="list-style-type: none"> • Gcizelela Iwati Iwacalandze <p>Umnyakato</p> <p>Bafundzi:</p> <ul style="list-style-type: none"> - Bakha bobunjwa ngemitimba yabo sib. Bafundzi labane benta calandze. - Bakha calandze usebentise iminwe. - Bakha calandze ngetintsi letisitupna temetijo.  <p>Faka phakatsi bobunjwa labakhulu na labancane nabocalantsattu bema-engeji lahlukene esikhwamneni sefeli sib.</p>  <p>Bakha calandze ngesontfo nobe inhlama yekudala.</p> <p>Bakha calandze ngetintsanjana tensontfo nenhlama.</p> <p>Bahamba ngaphandle kwacalandze. Nabahamba bafundzi batsi: "Ngihamba ngaphandle kwacalandze-Linye licala leidze, inye licala leifisha nalelinye futsi leidze, nalelinye leifisha."</p> <p>Babamba bobunjwa. Sebentisa bobunjwa labakhulu nobe ufake bobunjwa labahlukene "esikhwamneni sefeli" Babe nelisetii lemakhadi ekumatanisa nabobunjaweb lababhalive emakhadini.</p> <p>Dweba calandze emoyeni, phasi, emhlabatsini ubuye baya ephepheni.</p>	<p>Budze besikhatsi lesilinganisiwe</p> <p>Lilanga 1</p> <p>Umdalo wemakhadi kutfutufkisa Kubona bobunjwa</p> <p>Tintsit temetijo</p> <p>Insonnto nobe inhlama yekudala Sikhwama sefeli lesinabounjiwa labahlukene be-Jomethri</p> <p>Tinsita letiphakanyiswe</p>

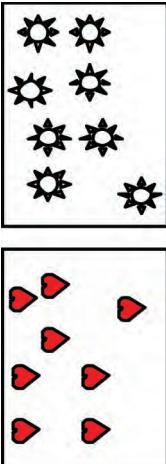
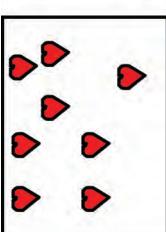
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Sihloko	Emanotsi lacacisako	Tinsita letiphakanyiswe	Lilanga 1

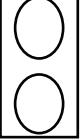
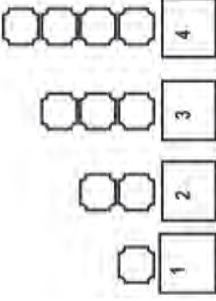
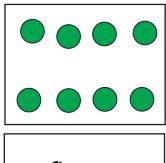
- 3.3 Bobunjwa labangemada-yimenshini lamabili (2-D)**
- Tintfo letiphatsekako ngekusebentisa tintfo letingemadayimenshini lamatsattu (3-D)
- Bafundzi babuka tinfo letinabobunjwa labangu calatsatsela Lokubonakalako lewungeke ukuphatse ngekusebentisa bobunjwa labangemada-yimenshini lamabili (2-D)
- Dlala umdialo: "Ngubani loshodako?"
- Faka inombolokubobunjwa labangemada-yimenshini lamabili (bobunjwa banganduli ku-5) ephepheni bahleti eknaphethini sib. bobunjwa belogi.
 - Chaza munye buriwa kubafundzi.
 - Niketa bafundzi kubamba ngenhloko bobunjwa lebasephepheni.
 - Bafundzi bavala emehlo.
 - Tishela akhiphe munye bunjwa.
 - Bafundzi bavule emehlo babuke kutsi ngumuphi bunjwa loshodako
 - Baphindza leyondila.
 - Tfutufukisa bobunjwa bejometri ngekuniketa emakhadi mdialo "Yini sikwele?" nobe ionunye

Liviki 32	Sikhatsi lesiphakanyisiwe sekufundzisa: Umsebenti munye welikasi loheliwe loholwa nguThishela (tikhatsi tetifundvo) emaminihi ± 30 ngelilanga(lmisebenti yetibalo ± ngeliviki)	Budze besikhatsi lesilinganisiwe
Sihoko	<p>Emanotsi lacacisako</p> <p>Chaza kubekeka kwetinfo letingemadymenshini lamatsatfu (3-D) ngekuhiobana lenye kulenyе.</p> <p>Umnyakato</p> <p>Bafundzi:</p> <ul style="list-style-type: none"> - Bema emkhatsini wetintfo letimbili nobe kubafundzi lababili. - Mani eceleni kwentombatane legcoke ilogo leliliuhlata kwesibhakabbaka. - Mani eceleni kwemfana logcoke emasandazi lansundvu. - Hamba emkhatsini wemabhokisi. - Khasa ngephiasi kweilitanula - Khasa ngephiasi kwestituo - Beka situlo phambi kwakho - Beka situlo envakkwakho - Mani etulu estitulwini - Hlala estitulwini - Beka situlo etulu kwakho - Beka situlo eceleni kwakho - Beka situlo esndleni sesincele nasesandleni sekudla. 	<p>Tinsita letiphakanyiswe</p> <p>Lilanga 1</p> <p>Titulo 2 .</p>

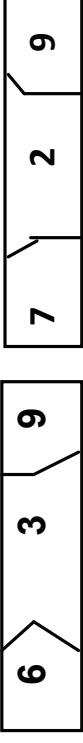
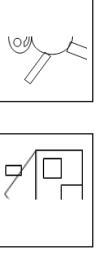
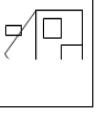
Liviki 32	Sikhatsi lesiphakanyisiwe sekufundzisa: Umsebenti munye welikasi loheliwe loholwa nguthishela (tikhatsi tetifundvo) emaminihi ± 30 ngelilanga(lmisebenti yetibalo ± ngeliviki)	Budze besikhatsi lesilinganisiwe
Sihoko	Emanotsi lacacisako	Tinsita letiphakanyiswe
3.1 Kubekeka, kutetayeta nekubukeka	<p>Lokuphatsekako usebentisa tintfo letingemadaiyemenshini lamatsatfu (3-D)</p> <ul style="list-style-type: none"> - Vumela bafundzi bacedzele emaphzii ebantfu netilwane. - Faka buhlalu entsanjinji ngendlela lasho ngayo thishela sib. Faka buhlalu lobubovu ubuye ulandzelisa ngalobuluhiata kwesibhakhabha. - Faka buhlalu ngendlela ngendlela tifombe tilandzana ngayo. <p>Sebenta ngemacembu lamancane.</p> <p>Thishela uniketa bafundzinngamunye iphekibhodi yakhe nemaphekisi.</p> <p>Bankete leticondziso letilandzelako:</p> <ul style="list-style-type: none"> - Faka emaphekisi lelibovu lamabili etulu ekhoneni lesaneole. - Faka lipheksileliluhlata esekudla seliphekisi lelibovu - Faka linye liphekisi leliluhlata kwesibhakhabha ngaphasi kweliphekiski leliluhlata. <p>Lokubonakalako ungeké ukuphatse usebentisa bobunjwa labangemada-yimenshini lamabili (2-D) nobe tifombe</p> <ul style="list-style-type: none"> - Dwewba bantfu nobe tilwane letingenatinyawo nemkhono cela bafundzi bacedzele umdwwebo. 	<p>Lilanga 1</p> <p>Emaphazili Buhlalu netsambo Emabhodi emaphekisi</p>  <p>Liphepha lekusebentela nemaphini</p>

Liviki 33	Sikhatsi lesiphakanyisiwe sekufundzisa: Umsebenti munye welikiasi loheliwe loholwa nguthishela (tikhatsi tetifundvo) emaminithi ± 30 ngelilanga/(misebenti yetibalo ± ngeliviki)		
Sihoko	Emanotsi lacacisako	Tinsita letiphakanyiswe	Budze besikhatsi lesilinganisiwe
1.1 Bala tintfo	<ul style="list-style-type: none"> Gcizelela lwati lolutfolakele evikini lema-31 nele- 32 lifaka ekhatsi 1 kuye kusi- 8inombolo 8 <p>Ngemlomo: Bala tintfo onkhe malanga urike kusi- 8 Bala uye emuva naphambili urike kusi- 8 Bala ngenhioko 1-10</p> <p>Gcizelela kubala ngakubili usebentis imilolotelo yetinombolo.</p> <p>Kugcizelela kubala ngetinombolo te-odinali</p> <p>Gcizelela lwati lwa “kanyenti na mbalwa”</p> <p>Shaya tandla kanyenti MANI.</p> <p>Shaya tandla kambalwa. Thishela ushaya kasi- 8.</p> <p>Buta umbuto wekushaya tandla kutsi bekukanyenti/tikhatsi letimbalwa</p> <p>Umnyakato</p> <ul style="list-style-type: none"> Bafundzi basebentisa imitimba yabo kwakha tinombolo timphawu. Thishela usebentisa tinsita letinyenti kuenta tinombolo bafundzi bangatibamba sib liphepha lesendi /ludzaka/ intsambo. Enta imilolotelo nemaculo etinombolo. <p>Lokuphatsekako usebentisa tintfo letingemadymenshini lamatsatfu (3-D)</p> <ul style="list-style-type: none"> Sebentisa tintfo letibambekakao njenge mabhuuki netiwane temapulasitiki. Tibile, tihungue, faka leti 8 elayinini njll. <p>Hlukanisa bafundzi ngemacembu</p> <p>Beka incumbi yetiwane tepulasitiki emkhatsini walinye licembu.</p> <p>Bafundzi ba:</p> <ul style="list-style-type: none"> sebentani ngababili babuyue bacombele kutsi tingaki tillwane encumbini. Linye lipheya itsalisa tinombolo makhadi bacondzanisa nalobakucombelako. Bala inombolo yetiwane lengyo. Lipheya linye lifaka tinkhanyeti embombo. Phindza ngekuifa tilwane letehlukene emkhatsini wemadi. 	<p>Lilanga 1</p> <p>Emaculo nemolotelo yetinombolo</p> <p>Tinombolo letinkhulu letentive ngeliphepha leliihedlako.</p>	<p>Budze besikhatsi lesilinganisiwe</p> <p>Lilanga 1</p> <p>Emabhuuki netiwane temapulasitiki</p> <p>Tiwane temapulasitiki le -9</p> <p>Emasethi lamancane etinombolo timphawu</p> <p>Tinkhanyeti tekubabonga</p>

Liviki 33	Sikhatsi lesiphakanyisiwe sekufundzisa: Umsebenti munye welikasi loheliwe loholwa nguThishela (tikhatsi tetifundvo) emaminithi ± 30 ngelilanga/(misebenti yetibalo ± ngeliviki)	Budze besikhatsi lesilinganisiwe									
Sihoko	Emanotsi lacacisako	Tinsita letiphakanyiswe									
1.3 Timphawu nemagama etinombolo	<p>Kubona nekutfolo tinombolo nemagama etinombolo letifaka tinombolo 1 kuya ku-8 Lokubonakalako ungeke ukuphatse usebentisa bobunjwa labangemada-yimenshini lamabili (2-D) nobe tiffombe</p> <ul style="list-style-type: none"> - Matanisa timphawu tinombolo netitfombe - Bafundzi kumele bati kutsi inchumi yetintfo ingatfwala tintfo letifananako   <ul style="list-style-type: none"> - Bafundzi bakhomba intfo ubuye bayabala. - Bafundzi bafanele bacondzanise intfo nalenye sib. Yinye inhlitiyo kulinye lilanga. - Matanisa likhdii tiffombe, likhadi lemakashati, likhadi letinombolo lilingane netibali. <p>1.4 Chaza, catsanisa ubuye uholele tinombolo letiphele</p> <ul style="list-style-type: none"> • Hela ubuye ucatsanise tintfo letigocgiwe ngekusebentisa kunyetti kuna, kuncane kuna,kuyalingana ngekufaka inombolo 8 <p>Temlomo: Bala tonkhe tinfo uyofika ku-8. Bala uye emuva naphambili uyofika e-8. Gcizelela kubala ngakubili usebentisa imilolotelo yetinombolo.</p> <p>Niketa Iwati Iwa “kunyenti netikhatsi letimbawwa”</p> <p>Shaya tandla kanyeti..... Mani.</p> <p>Shaya tandla tikhatsi letimbawwa. Thishela ushaya tandla kasi- 8.</p>	<p>Tiffombe nemafleshikhadi etinombolo</p> <p>Tibali</p> <table border="1"> <tr> <td>Tiffombe</td> <td>tetinfo</td> <td>le 8</td> </tr> <tr> <td>8</td> <td></td> <td></td> </tr> <tr> <td>siphohlongo</td> <td></td> <td></td> </tr> </table> <p>Lisethi lemakhaditnombolo letifaka tinombolo 1-8</p> <p>Emaculo nemilototelo yetinombolo</p> <p>Lilanga 1</p>	Tiffombe	tetinfo	le 8	8			siphohlongo		
Tiffombe	tetinfo	le 8									
8											
siphohlongo											

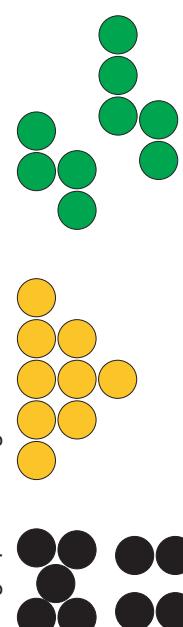
Liviki 33	Sikhatsi lesiphakanyisiwe sekufundzisa: Umsebenti munye welikasi loheliwe loholwa nguthishela (tikhatsi tetifundvo) emaminithi ± 30 ngelilanga/(misebenti yetibalo ± ngelivik)		
Sihoko	Emanotsi lacacisako	Tinsita letiphakanyiswe	Budze besikhatsi lesilinganisiwe
1.4 Chaza, catsanisa ubuye uholele tinombolo letiphele	<p>Umnyakato</p> <ul style="list-style-type: none"> - Thishela ubeka emabhuloki la -8 etafuleni. Ngaphandle kwekubala, bafundzi abacombe linani lemabhuloki. - Thishela uyabuta: <ul style="list-style-type: none"> o "Ngabe kunemabhuloki langetulu kwalama-3?" o Bafundzi babuka timphendvulo ngekubala emabhuloki " o "Bekudvute ngakanani kucombela? <p>Lokuphatsekako usebentisa tintfo letingemadymenshini lamatsatfu (3-D)</p> <ul style="list-style-type: none"> - Akha licembu lebafundzi labane. Niketa linye licembu tibali le 8 neliphepha lelinetindilingga letinkhulu letimbili. Tindilinga atitiwe ngetikhelle. - Bafaka tibali esikhelleni sinye ubuye bayabala kutsi tingaki tibali esikhelleni, balandzele loko lokushiwo nguthishela. - Bafundzi bacatsanisa "tikhelle" ubuye babuka tikhehle "letinyenti kuna" nale "tincane kuna", na "kuyalingana" netinombolo tetibali. <p>Hlukanisa bafundzi ngemacembu.</p> <ul style="list-style-type: none"> - Niketa emacembu tirkwelle temayunifikasi kufaka ekhatsi inombolo 1 kuya kusi-8. - Vumela licembu lebafundzi lakhe Sakhwiwo lesidze kakhulu ubuye ulebula ngasinye sakhiwo lesikhulu ngetinombolo temakhuyubhu letisejentisive sib 	<p>Emabhuloki</p> <p></p> <p>Tibali liphepha le- A4 lelinetikhelle ti- 2</p> <p></p> <p>Emakhiyubi eyunifisi Likhadi letinombolo timphawu kusuka 1-8</p> <p>Emakhadji nemacashati etifombe</p> <p></p> <p>Tifombe tetinfo letisi-8</p>	
	Lokubonakalako ungeke ukuphatse usebentisa bobunjwa labangemada-yimenshini lamabili (2-D) nofe tifombe		<ul style="list-style-type: none"> - Thishela ubakhombisa emakhadji lamabili lahlukene emacashati netifombe. - Bafundzi bacatsanisa emakhadji etifombe nemacashati ekubona "lokunyenti kuna" na "lokuncane kuna" na "kuyalingana".

Liviki 33	Sikhatsi lesiphakanyisiwe sekufundzisa: Umsebenti munye welikasi loheliwe loholwa nguthishela (tikhatsi tetifundvo) emaminithi ± 30 ngelilanga/(misebenti yetibalo ± ngeliviki)		Budze besikhatsi lesilinganisiwe
Sihioko	<p>1.13 Kuhlangananisa nekususa</p> <ul style="list-style-type: none"> Catulula tinkingga tetibalo ngekuhianganisa nekususa kuye kusi-i-8 <p>Ngemlomo: Bala tintfo onkhe malanga urike e -8 Bala uye emuva naphambili urike e -8 Gcizelela kubala ngakubili usebentise imilolotelo yetinombolo.</p> <p>Gcizelela Iwati Iwa “kanyenti netikhatsi letimbawwa”</p> <p>Shaya tandla kanyenti MANI. Shaya tandla kambalwa. Thishela ushaya kasi- 8. Buta umbuto wekutsi nguyiphi inombolo yekushaya tandla lebeyikanyentii/ tikhatsi letimbawwa.</p>	<p>Emanotsi lacacisako</p> <p>Tinsita letiphakanyiswe</p> <p>Lilanga 1</p> <p>Emaculo nemilototelo yetinombolo</p>	<p>Umnyakato</p> <p>Tibonelo:</p> <ol style="list-style-type: none"> Thishela ubita bafundzi laba 3 abamise embili. Bafundzi bayababala. Thishela ubita labanye la 2 ubuye uyabuta: Bangaki labafundzi sebabonke?“ 3 na 2 → 5. (Thishela utsi: 3 na kwenta 5) Thishela ubeka titulo le 2 ngeta letinye le 2 Tingaki titulo setitonkhe? 2 na 2 → 4. Thishela uphalkamisa sinye ubuye utsi ubuye utsi “Balani tingalo tamii.Nangabe ngifihla sitifupha, tingaki tingalo letisele? 5 ususe 1 → 4. Bafundzi ababale tingalo sandal sabo sinye. Fihla tfupha; tingaki tingalo letisele? 5 ususe 1 → 4. <p>Tintfo letiphatsekako usebentisa tintfo letingemadayimenshini lamatsatu (3-D)</p> <p>Bafundzi babeka tibali e 6 ubuye benta loku:</p> <ul style="list-style-type: none"> - Thishela uniketa munye umfundzi tibali le 6. Thishela uniketa bafundzi ticondiso sib. Beka tibali timbili 2, ngeta letinye tibali le 3. Tingaki tibali setitonkhe. 2 na 3 → 5. - Tibali le 4. Ngeta 2 kulo- 4. Sewunkungaki nyalo? 4 na-2 → 6. - Bala bonkhe buhluu lonabo. Nawubona buhluu bubili esandleni ytabona bungaki? 6 ususe 2 → 4.

Liviki 33	Sikhatsi lesiphakanyisiwe sekufundzisa: Umsebenti munye welikasi loheliwe loholwa nguThishela (tikhatsi tetifundvo) emaminithi ± 30 ngelilanga/(misebenti yetibalo ± ngelivik)		
Sihoko	Emanotsi lacacisako	Tinsita letiphakanyiswe	Budze besikhatsi lesilinganisiwe
1.13 Kuhlanganisa nekususa	Lokubonakalako ungeke ukuphatse usebentisa bobunjwa labangemada-yimenshini lamabili (2-D) nobe tifombe Akha emaphazili ubuye uvumela bafundzi badlale ngemaphazili. 	Emaphazili etinombolo	Lilanga 1
3.3 Bobunjwa labangemada-yimenshini lamabili (2-D)	Buka, tfola ubuye uchaze bobunjwa labangemada-yimenshini lamabili (2-D) etifombeni Buka ticensy etintfweni letiphelle Umnyakato Thishela uchaza intfo abuye ubute bafundzi kutsi yini sib. - Ngicabanga intfo lebovu lenemasondvo lamané, tivalo letine nelifasitelo lelingavuleka ibanga umisindvo itsi "hhamu! hhamu" Lomsebenti ungentiwa ngemacembu -linye licembu liyachaza lelinye liyacombela kutsi yini lento . - Chaza umuntfu ubuye ubute bafundzi kutsi ngubani. Lokubonakalako ungeke ukuphatse usebentisa bobunjwa labangemada-yimenshini lamabili (2-D) nobe tifombe Khomba bafundzi tifombe ubuye utsi abasibuke. Sikhiphe ubuye ucela bafundzi kutsi basichaze ngendle lebasibone ngayo naiebakhumbulu ngayo. - Tsatsa tifombe sinye usente tincencye letehlikene. Tifake ebhokisini sewucela bafundzi kutsi babuke tincencye letihahkile ebhokisini. - Dwewba imidwewebo lengakaphelleli ephepheni ubuye ucela bafundzi bacedzele tifombe.	 	Lilanga 1

Liviki 33	Sikhatsi lesiphakanyisiwe sekufundzisa: Umsebenti munye welikasi loheliwe loholwa nguThishela (tikhatsi tetifundvo) emaminithi ± 30 ngelilanga/(misebenti yetibalo ± ngelivik)		
Sihoko	Emanotsi lacacisako	Tinsita letiphakanyiswe	Budze besikhatsi lesilinganisiwe
3.4 Kwhlukanisa emkhatsini kuliringane ngalokufanako	<ul style="list-style-type: none"> • Tfutukisa Iwati Iwekutsi umtimba unethi langotsi Iwesencele nelwesekudia lolunganyakata ngalunye. <p>Umnyakato</p> <ul style="list-style-type: none"> - Faka libande Ielastitiki esihlakaleri sesandla sekudia semfundzi ngamunye. - Cula liculo lelinemnyakato. <p>Bafundzi:</p> <ul style="list-style-type: none"> - Ababeke tanda tabo etinhloko tabo - Abatsintse emadvolo abo esencele ngetingcoza tese кудла. - Abatsintse emahlombe ese кудла ngetandla tesencele nili <p>Lokuphatsekako usebentisa tintfo letingemadayimenshini lamatsatfu (3-D)</p> <p>Niketa umfundzi ngamunye ibhuloki yekwakha</p> <p>Bafundzi abahiale ekhaphethini:</p> <ul style="list-style-type: none"> - Beka ibhuloki ecaleni lesekudia/ lesencele - Ehrombe lesencele/ lesekudia - Edvolweni lesencele/ lesekudia - Enyaweni lesencele/ lesekudia <p>Lokubonakalako ungeke ukuphatse usebentisa bobunjwa labangemada-yimenshini lamabili (2-D) nobe tifombe</p> <p>Liphepha</p> <ul style="list-style-type: none"> - Umfundzi ngamunye utfola liphepha nekhilayoni. - Bafundzi abadvwebe umugca emkhatsini weiphhepha kusukela etulu kuya phasi nalomunye umugca emkhatsini kusukela esencele kuya ese кудла. - Thishela uniketa ticondziso: <ul style="list-style-type: none"> o Beka umunwe wakho emkhatsini wesiphambano o Dwweba indilinga ebhulokini lengenha esandleni sesencele o Dwweba calantsatfu ebhulokini lengentasi yesekudla o Dwweba silkwele ebhulokini lengenha yesekudla o Dwweba calandze ebhulokini lengentasi yesencele. - Cocisanani ngephosta yesitombé. Bafundzi baphendvula imibuto lebavumela kutsi bachaze (ngaphandle kwekukhombisá) kubekéka kwetintio esitombeni. 		

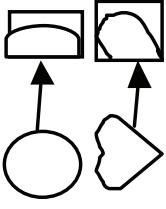
Liviki 34	Sikhatsi lesiphakanyisiwe sekufundzisa: Umsebenti munye welikasi loheliwe loholwa nguThishela (sikhatsi sesifundvo) emaminithi ± 30 ngelilanga/(missebenti yetibalo ± 5 ngeliv[i])		
Sihoko	Emanotsi lacacisako	Tinsita letiphakanyisiwe	Budze besikhatsi lesilinganisiwe
1.1 Bala tintfo	<ul style="list-style-type: none"> Ngenisa inshokutsi yenombolo 9 <p>Temimo: Bala tintfo tmalanga onkhe urike kusi- 9. Bala uye phambili nasemuva urike ku-9.</p> <p>Gcizelela kubala ngakubili ngekusebentisa imilolotelo yetinombolo.</p> <p>Gcizelela kubala tinombolo te-odinali; Thishela upaka tintfo leti-6 emgenci. Khomba intfo ngayinye ngalesikhatsi ubala <i>kwekuca/a, kweшибili, kwesitsaffu, kwestire, kwestihlanu, kwesittupha</i>.</p> <p>Gcizelela Iwati Iwa “Iokunyenti nalokumbalwa”</p> <p>Shaya tandla emahlandia lamanyentiMANI</p> <p>Shaya tandla emahlandia lambalwa. Thishela ushaya tandla emahlandia layi 9</p> <p>Buta kutsi ngukuphi kushaya tandla lokube kunyenti/ mbalwa.</p>	<p>Emalanga 2</p> <p>Emaculo nemilolotelo yetinombolo</p>	
Umnyakato	<p>Bafundzi:</p> <ul style="list-style-type: none"> Ababale kufika ku-9 ngalesikhatsi bakhuphuka titepisi. Dweba inombolo 9 esantini/ esiyilweni/ phasi ubuye uhamba etukwayo. Shaya tandla emahlandia layi-9. Bona tinombolo 1 kuya ku-9 nathianganiswe nesethi yetinombolo letinkhulu. Sebentisa imibono yakho kute bafundzi batfolo inshokutsi yenombolo 9 ngemitimba yabo. 	Isethi yetinombolo letinkhulu.	

Liviki 34	Sikhatsi lesiphakanyisiwe sekufundzisa: Umsebenti munye welikasi loheliwe loholwa nguThishela (sikhatsi sesifundvo) emaminithi \pm 30 ngelilanga/(missebenti yetibalo \pm 5 ngeliv[i])											
Sihoko	<p>1.6 Emasu ekucatulula tinkinga tekubala</p> <p>Lokuphatsekako usebentisa tintfo letingemadayimenshini lamatsatfu (3-D)</p> <p>Thishela wakha umugcatinombolo nobe sitepsi setiombolo esiyilweni nobe phasi</p> <ul style="list-style-type: none"> - Thishela wakha umugcatinombolo nobe sitepsi setiombolo esiyilweni nobe phasi - Thishela uniketa ticondziso letifana nekutsi: - Mani ecandzeni nobe cala ecandzeni ngaso sonkhe sikhatsi - Bala ube uhamba ngaso sonkhe sikhatsi. - Hamba uye enombolweni 5. Buyela emuva enombolweni 2. Hamba uye embili enombolweni 8 - Hamba uye enombolweni 8. Hamba uye phambili ngenombolo yinye. Hamba uye emuva ngetinombolo letimbili. - Nguyiphi inombolo lelandzela 3? - Nguyiphi inombolo leyendvulela 7? - Tfutufukisa lwati lwekubetekera kwetinombolo ngekuvumela bafundzi kutsi bapake tibali letiyimfica nobe ngutiphi tintfo ngetindela letehukene. sib. 	<p>Budze besikhatsi lesilinganisiwe</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <tr><td>0</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td></tr> </table> <p>Tinsita letiphakanyisiwe</p> <p>Sitepsi setinombolo</p>	0	1	2	3	4	5	6	7	8	9
0	1	2	3	4	5	6	7	8	9			

Liviki 34	Sikhatsi lesiphakanyisiwe sekufundzisa: Umsebenti munye welikasi loheliwe loholwa nguThishela (sikhatsi sesifundvo) emaminithi ± 30 ngelilanga/(misebenti yetibalo ± 5 ngeliviki)									
Sihoko	Emanotsi lacacisako	Tinsita letiphakanyisiwe	Budze besikhatsi lesilinganisiwe							
1.6 Emasu ekucatulula tinkinga tekubala	<p>Lokubonakalako ungeke ukuphatse usebentisa bobunjwa labangemada-yimenshini lamabili (2-D) nobe tifombe.</p> <p>Sebentisa inombolo 9 kusimongcondvo lebasetayele.</p> <p>Bafundzi:</p> <ul style="list-style-type: none"> - Matanisa likhaditifombe nemacashati lanenombolo lefanako. Paka tibali letiynombolo lefanako. 									
1.3 Timphawu nemagama etinombolo	<p>• Bona timphawu tetinimbolo nemagama etinombolo.</p> <p>Umnyakato</p> <ul style="list-style-type: none"> - Beka tintfo leti 5 emgceni. - Vumela bafundzi kutsi batibuke kahle. - Bafundzi babuka eceleni ubuye thishela ukhipha yinye info. - Bafundzi kufanele basho kutsi nguyiphi info lekhishiwe. - Faka letinye tintfo esikhundleni saletikhishiwe ubuye uphindza emahlandla lambalwa ubuye uyachubeke ukhipha tintfo letimibili nobe letingetulu kwaloko. <p>Bafundzi:</p> <ul style="list-style-type: none"> - Khetsa inombolo 9 neligama lalenombolo emkhatsini wallamanye emakhadigama. - Beka emakhaditinombolo esiyilweni ngendela lekulandzelana ngayo tinombolo. - Beka emakhaditinombolo asakateke. <p>Hlukanisa bafundzi ngemacembu lamancane. Thishela uniketa licembu ngalinye isethi yemakhaditinombolo.</p> <p>Nika bafundzi ticondziso sib.</p> <ul style="list-style-type: none"> - Tsintsa inombolo 4, beka ingcoza etulu kwenombolo 8, hlala etulu kwenombolo 3, gjima ujikelete inombolo 5 emahlandla lasihlanu njil. - Dlala imidhalo ngekuchumanisa linani letibali kanye neligama lenombolo, inombolo, emacashati nemakhaditfombe. - Cineka kutsi inombolo neligama lenombolo kuhlah kuchumene nelinanai lelfanako letimifo. 	<p>Tintfo leti -5 (kukhumbula ngekubona)</p> <table border="1"> <tr> <td>Tibali</td> <td></td> </tr> </table> <p>Emakhaditinombolo lambalwa lafaka ekhatsi inombolo 1 kuya ku-9 that involves number 1 ku- 9</p> <table border="1"> <tr> <td>9</td> <td>imfica</td> </tr> </table>	Tibali		9	imfica	<table border="1"> <tr> <td></td> <td>9</td> <td>imfica</td> </tr> </table> <p>Tibali</p>		9	imfica
Tibali										
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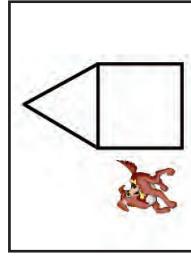
Liviki 34	Sikhatsi lesiphakanyisiwe sekufundzisa: Umsebenti munye welikasi loheliwe loholwa nguThishela (sikhatsi sesifundvo) emaminiti \pm 30 ngelilanga/(misebenti yetibalo \pm 5 ngeliv[i])	
Sihoko	<p>Emanotsi lacacisako</p> <p>3.1 Kubekeka, kwetayela kanye nekubukeka</p> <p>- Tfutukisa Iwati lwenkhombandila</p> <p>Umnyakato</p> <ul style="list-style-type: none"> - Dwomba calantsattu lomkhulu nobe sikwele phasi nobe esiyilweni. - Bafundzi bahamba bajikelete bunjwa baphimisa kutsi ngabe bajikeda esancele nobe esekudla babuye bakukhombie loko ngetandla, <p>Lokuphatsekako usebentisa tintfo letingemadayimenshini lamatsatfu (3-D)</p> <p>Dwomba calantsattu lomkhulunobe sikwele ephepheni ubuye ulibeka esiyilweni.</p> <p>Umfundzi munye:</p> <ul style="list-style-type: none"> - Ushova ithoyisi yemoto emigceni. - Labanye bafundzi balula tanda tabo tesencle nobe tesekudla tihambisane nenkhombandelia babuye basho kutsi kusencelle nobe kusekudia. <p>Bafundzi:</p> <ul style="list-style-type: none"> - Bachaza tintfo ngetindlea letehlukene sib. Umdoli (phambili/ emuva), indlu (phambili/ emuva), sikolo (phambili/ emuva), imoto (phambili/ emuva) kuye ngekutsi wena ume kuphi. - Bachaza loko lebakubonako sib. Nangabe kunesihlahla phambi kwendlu, bachaza indzawo lesikuyo sihlahlia. <p>Lokubonakalako ungeke ukuphatse usebentisa bobunjiwa labangemada-yimenshini lamabili (2-D) nobe tiffombe.</p> <ul style="list-style-type: none"> - Bafundzi batfola Iwati lwa phambili/ emuva ngekukhombisa indlela etitfombeni. 	<p>Tinsita letiphakanyisiwe</p> <p>Budze besikhatsi lesilinganisiwe</p> <p>Lilanga 1</p> <p>Bobunjiwa labakhulu labadvwtjive ephepheni</p> <p>Ithoyisi yemoto Umdoli</p> <p>Indlu mbamba</p> <p>Imoto</p> <p>Tiffombe leticacisa kahe inkhombandletasib. Tinkhombandilea letikhombisa luhambo lwemoto, tinkhombandilea letilandzelwa ngumuntu lohambako.</p>

Liviki 34	Sikhatsi lesiphakanyisiwe sekufundzisa: Umsebenti munye welikasi loheliwe loholwa nguThishela (sikhatsi sesifundvo) emaminithi ± 30 ngelilanga/(misebenti yetibalo ± 5 ngeliv[i])		
Sihoko	<p>Emanotsi lacacisako</p> <p>Bona, tfola ubuye usho emagama abobunjwa labangemada-yimenshini lamabili (2-D)</p> <ul style="list-style-type: none"> - Gcizelela Iwati ngendilinga, calantsaffu, siwele nacalandze <p>Umnyakato</p> <p>Bafundzi baba ngababili:</p> <ul style="list-style-type: none"> - Dwweba bunjiva emhlane wemngani wakhe ngemunwe. Lolomunye umfundzi kumele atfole kutsi ngumuphi lobunjwa wemngani. <p>Lokuphatsekako usebentisa tintfo letingemadayimenshini lamatsatfu (3-D)</p> <p>Niketa bobunjwa be-Jomethri labangemasyizi nebabantu lobehlukene.</p> <p>Bafundzi:</p> <ul style="list-style-type: none"> - Bahlunga bobunjwa ngekwe: tindilinga, bocalantsaffu, tikkwele nabocalandze. - Bahlunga bobunjwa be-jomethri ngekwesayizi. - Bahlunga bobunjwa be-jomethri ngekwembala. 	<p>Tinsita letiphakanyisiwe</p> <p>Budze besikhatsi lesilinganisiwe</p> <p>Lilanga 1</p> <p>Bobunjwa labatithlobonhlobo</p> <p>Liphepha lelinetindilinga, bocalantsaffu, tikkwele nabocalandze sib.</p>   	<p>Faka nabobuniya labancane nalabakhulu nabocalantsaffu labangema-engeli lehlukene sib.</p>    <p>Lokubonakalako ungeke ukuphatse usebentisa bobunjwa labangemada-yimenshini lamabili (2-D) nobe titfombe</p> <p>Bafundzi:</p> <ul style="list-style-type: none"> - Bajuba labobunjwa labangenhla ephepheni. Faka bobunjwa labakhulu nalabancane nabocalantsaffu labanema-engeli lehlukene. - Hlunga bobunjwa labehlukene ndzawonye. - Hlela sitfombe usebentisa bobunjwa labajutiwe ubuye ubasebentisa ngesikhatsi sensebenti webuciko.

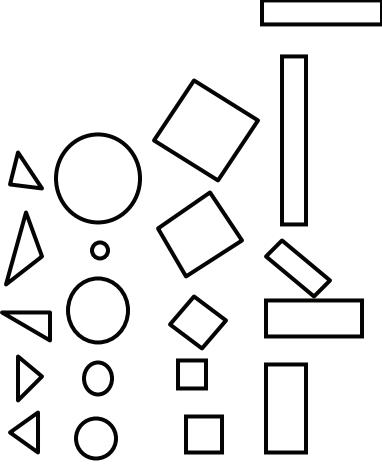
Liviki 34	Sikhatsi lesiphakanyisiwe sekufundzisa: Umsebenti munye welikasi loheliwe loholwa nguThishela (sikhatsi sesifundvo) emaminithi ± 30 ngelilanga/(misebenti yetibalo ± 5 ngeliviki)	Budze besikhatsi lesilinganisiwe
Sihoko	<p>Emanotsi lacacisako</p> <p>3.4 Umu<u>gca</u> lohu<u>kanisa</u> emkhat<u>sini</u> kufanane, kuligane</p> <ul style="list-style-type: none"> Trutukisa Iwati Iwekutsi Kunemugca lohlukanisa tintto emkhatstini kufanane, kuligane. <p>Lokuphatsekako usebentisa tintfo letingemadaiemenshini lamatsatfu (3-D)</p> <ul style="list-style-type: none"> Funa tintfo mbamba letitawuveta umugca lohlukanisa emkhatstini kufanane, kuligane. (licala linye libukeka lifana naletinlye licala) sib. Livivane, licembe lembali njii. Thishela nebafundzi bagcogca tifombe letinemifanekiso lekhombisa kuhlukanisa emkhatstini kufanane, kuligane. Sib. Imifanekiso lependwe etindili, imifanekiso yemathayilisi, imifanekiso lekumavasi nemapharashuthi. <p>Lokubonakalako ungeke ukuphatse usebentisa bobunija labangemada-yimenshini lamabili (2-D) nobe tifombe.</p> <ul style="list-style-type: none"> Bafundzi baiuba bunija loyinhltiyo nobe ivasi yetimbali ephepheni leligocwe laba yihhafu ubuye bayalihlobisa ngesikhatsi sebuciko bekubuka wente. 	<p>Tinsita letiphakanyisiwe</p>  <p>Lilanga 1</p>  <p>Siceshana seliphepha leligocwe emkhatstini</p>

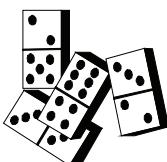
Sikhatsi lesiphakanyisiwe sekufundzisa:				
Liviki 35	Umsebenti munye welikiasi loheliwe loholwa ngu Thishela (sikhatsi sesifundvo) emaminiti ± 30 ngelilanga (lmisebenti yetibalo ± ngeliviki)	Emanotsi lacacisako	Tinsita letiphakanyisiwe	Budze besikhatsi lesilinganisiwe
1.1 Bala tintfo	<ul style="list-style-type: none"> Gcizelela Iwati lolutfolakele evikini 34 loluraka ekhatsi inombolo 9 <p>Temilomo: Bala tintfo letisefijentiswa malanga onkhe urike kusi-9. Bala uye phambili nasemuva urike kusi- 9. Bala ngenhloko 1 - 10</p> <p>Gcizelela kubala ngakubili usebentisa imilolotelo yetinombolo.</p> <p>Gcizelela Iwati Iwa “lokunyenti nalokumbalwa”</p> <p>Shaya tandla emahlandla lamanyentiMANI Shaya tandla emahlandla lambalwa. Thishela ushaya tandla emahlandla layi 9 Buta kutsi ngukuphi kushaya tandla lokube kunyentii/ mbalwa.</p>		<p>Imilolotelo nemaculo etinombolo</p>	Lilanga 1
Sihoko				

Sikhatsi lesiphakanyisiwe sekufundzisa:					
Liviki 35	Umsebentii munye welikiasi lohleliwe loholwa nguThishela (sikhatsi sesifuncro) emaminiti \pm 30 ngelilanga (imisebenti yetibalo \pm ngeliviki)	Emanotsi lacacisako	Tinsita letiphakanyisiwe	Budze besikhatsi lesilinganisiwe	
1.4 Sihoko	<ul style="list-style-type: none"> Sebentisa tinombolo tesimongcondvo lesetaya lelekile <p>Lokuphatsekako usebentisa tintfo letingemadaiyimenshini lamatsattu</p> <p>Bafundzi:</p> <ul style="list-style-type: none"> - Bafundzi babala tintfo letisekklasini - Babala ngetibali - Thishela ubeka tintfo tibe yincumbi etafuleni. Bafundzi abacombele kutsi tingaki tintfo letikulencumbi. Batatibala emuva kwaloko. <p>Lokubonakalako ungeke ukuphatse usebentisa bobunjwa labangemada-yimenshini lamabili (2-D) nobe titfombe</p> <p>Bafundzi:</p> <ul style="list-style-type: none"> - Badlala imidlaao ngekukhombisa kuhambelana kwenombolo yetibali neligama lenombolo, inombolo, emakhadi emacashati netitfombe. - Bacinisekisa kutsi inombolo neligama lenombolo kuhambelana nelinani lelifanako letintfo. - Batsatsisela inombolo 9 ngekhilayoni. 	<p>Lilanga 1</p> <p>Tibali</p> <p>Tintfo letisekklasini</p> <p>Ifleshikhadi lelinenombolo neligama lenombolo, emacashati netitfombe sib.</p> <p>Siftombe setintfo leti-9</p> <p>9</p> <p>imfica</p> <p>Tibali, emakhilayoni</p>	<p>Lilanga 1</p> <p>Siftombe sesihlahla lesikhulu</p>	<p>Lilanga 1</p> <p>Tibali letiyi 9</p>	
1.7 Kuhlanganisa nekususa	<ul style="list-style-type: none"> Sombulula ngemlomo tinkinga tetibalo temagama (tibalo tetindzaba) engcikitsini lefaka ekhattsi tinombolo 1 kuya ku-9 <p>Umnyakato</p> <ul style="list-style-type: none"> - Coca indzaba ngesihlahla lesinenyonii yinye kuso. Kwafika lenye inyonii. Nyalo sekunteniyoni letingaki? Bafundzi benta samdialo basebentisa emamaski. 1 na 1 kwenta 2. - Phindza lendzaba kuze kube netinyoni letisi- 9. <p>Lokuphatsekako usebentisa tintfo letingemadaiyimenshini lamatsattu (3-D)</p> <ul style="list-style-type: none"> - Umgani munye unetibali leti 8 sib. Tilwane letakhiwe ngepulasitiki, umngani wakhe unasinye ngetulu. Tingaki tilwane tepulasitiki lebanato sethlangene. 8 na 1 @ 9 <p>Lokubonakalako ungeke ukuphatse usebentisa bobunjwa labangemada-yimenshini lamabili (2-D) nobe titfombe</p> <ul style="list-style-type: none"> - Niketa umntfawana ngamunye liphepha lekusebentela lelinesiftombe sesihlahla. Bafundzi babeka sibali sinye esihlaheni. Bayachubeka bangeta sibali sinye esihlahleni. 	<p>Liphepha lekusebentela lelinesihlahla</p> <p>netibali</p>			

Liviki 35	Umsebentii munye welikiasi lohleliwe loholwa nguThishela (sikhatsi sesifuncvo) emaminithi ± 30 ngelilanga (imisebenti yetibalo ± ngeliviki)	
Sihoko	<p>3.1 Kubekeka, kuteayeta nekubukeka</p> <p>Umnyakato</p> <ul style="list-style-type: none"> - Umfundzi ucela umngani wakhe kutsi eme emkhatsini wetintfo letimbili/ webafundzi lababili. - Umfundzi ucela umngani wakhe kutsi eme eceleni nentfombatane legcoke iloko lelilihata njengesibahakabhaka. - Umfundzi ucela umngani wakhe kutsi eme eceleni kwemfana logcoke emasandasi lansundvu. <p>Lokuphatsekako usebentisa tintfo letingemadayimenshini lamatsu (3-D)</p> <ul style="list-style-type: none"> - Lengisa intsambo emkhatsini wetintfo letimbili. - Bafundzi baneka timphahlia mbamba ngekwesicondziso lesitsite sib. <ul style="list-style-type: none"> o “Neka lihembe ecaleni lesancele lentsambo yekuneka” o “Neka iloko ecaleni lesekudla lelihembe” o “Neka liduku lekutesula edvute nenji!” o “Neka libhuluko emkhatsini wenji!” <p>Lokubonakalako ungeke ukuphatse usebentisa bobunjwa labangemada-yimenshini lamabili (2-D)</p> <ul style="list-style-type: none"> - Dwweba sitfombé sendlu ngekweticondziso sib. <ul style="list-style-type: none"> o Dwweba lupahlah ngetulu kwelikhiasi. o Dwweba lubondza lwendlu emkhatsini weliphepha. o Dwweba injja ecaleni lesancele lendlu. <p>Liphepha kumele lingabi likhulu kakhulu kute kube nesiciniseko sekutsi labobunjwa labehlukena bayatsintsana kute kwakheke sitfombe sendlu.</p>	<p>Tinsita letiphakanyisiwe</p> <p>Lilanga 1</p>  <p>Budze besikhatsi lesilinganisiwe</p>
		<p>Liphepha</p> <p>Emakhilayoni</p> 

Liviki 35	Sikhatsi lesiphakanyisiwe sekufundzisa:		
Sihoko	Umsebentii munye welikiasi lohleliwe loholwa nguThishela (sikhatsi sesifuncvo) emaminithi ± 30 ngelilanga (imisebenti yetibalo ± ngelivikj)	Tinsita letiphakanyisiwe	Budze besikhatsi lesilinganisiwe
3.3 Bobunjiwa labangemada-yimenshini lamabili (2-D)	<p>Bona, uttole ubuye unikete emagama abobunjiwa labangemada-yimenshini lamabili (2-D)</p> <ul style="list-style-type: none"> • Kugcina bobunjiwa <ul style="list-style-type: none"> - Gcizelela Iwati lolutfoakele ngacalandze. <p>Kugcina Iwati kuyindlela yekwati kwehlukanisa emkhatsini wabobunjiwa labasendzaweni yettu ngaphandlekwekubuka isayizi yabo nobe isayizi yema-engeli.</p> <p>Lokuphatsekako usebentisa tintfo letingemadayimenshini i lamatsattu (3-D)</p> <p>Hlukanisa bafundzi ngemacembu.</p> <ul style="list-style-type: none"> - Niketa licembu ngalinye emabhuholi ekwakha laluholo Iwacalandze langemasayizi lehlukene abey yi 9. <p>Bafundzi:</p> <ul style="list-style-type: none"> - Bahlunga emabhuholi ekwakha abe tincumbi letingemasayizi lalinganako. - Bala inombolo yemabhuholi ekwakha. <p>Thishela uniketa leticondziso letilandzelako:</p> <ul style="list-style-type: none"> - Beka emabhuholi ekwakha laluholo Iwacalandze emgenci locondzile. - Beka emabhuholi ekwakha laluholo Iwacalandze eme, acondze. - Beka emabhuholi ekwakha laluholo Iwacalandze akhe umugca wezgi zegi. <p>Thishela uniketa umfundzi ngamunye siceshana sensontfo. Bafundzi bakha bunjwa loluhlobo Iwacalandze basebentisa insontfo.</p>  <p>Thishela utawukhombisa kutsi calandze wemfundzi ngamunye wehlukile kodvwa labobunjiwa babocalandze bonkhe.</p>	<p>Lilanga 1 Nobe khetse leminye</p> <p>Licembu ngalinye littola emabhuholi ekwakha bobunjwa labangubocalandze labayi-9 bemasayizi lahlukene.</p> <p>Siceshana sensontfo</p>	<p>Lilanga 1</p>

Liviki 35	Umsebentii munye welikiasi lohleliwe loholwa nguThishela (sikhatsi sesifuncvo) emaminithi ± 30 ngelilanga (imisebenti yetibalo ± ngelivikj)	Sikhatsi lesiphakanyisiwe sekufundzisa:
Sihloko	Emanotsi lacacisako	Tinsita letiphakanyisiwe
3.3 Bobunjiwa labangemada-yimenshini lamabili (2-D)	<p>Lokubonakalako ungeke ukuphatsse usebentisa bobunjwa labangemada-yimenshini lamabili (2-D) nobe tifombe.</p> <ul style="list-style-type: none"> - Thishela udvvweba emakhadi lehlukene langemashumi lamabili, ngalinye libe nabocalantsatfu labehlukile, tindilinga, tikwele nabocalandze sib. 	<p>Budze besikhatsi lesilinganisiwe</p> <p>Lilanga 1 Nobe khetse leminye</p> <p>Emafleshikhadi langemashumi lamabili, ngalinye linacalantsatfu munye kulabasihanu labehlukene, tindilinga, tikwele nabocalandze.</p>

Liviki 36	Umsebentii munye wellikasi loholiwe loholwa nguThishela (tikhatsi tetifundo) emaminthi ± 30 ngelilianga (misesebenti yetibalo ± ngeliviki)		
Sihloko	Emanotsi lacacisako	Tinsita letiphakanyisiwe	Budze besikhatsi lesilinganisiwe
1.1 Bala tintfo	<p>Gcizelela Iwati lolufolakele lolufaka ekhatsi tinombolo 1 kuya ku-9</p> <p>Temlomo: Bala tintfo letisetjentiswa malanga onkheonke urike kusi- 9.</p> <p>Bala uye phambii nasemuva urike kusi- 9.</p> <p>Gcizelela kubala ngakubili usebentisa imilolotelo yetinombolo</p> <p>Gcizelela Iwati Iwa “lokunyenti na lokumbalwa”</p> <p>Shaya tandla emahlandia lamanyentiMANI</p> <p>Shaya tandla emahlandia lambalwa. Thishela ushaya tandla emahlandia lay 9.</p> <p>Lokuphatsekako usebentisa tintfo letingemadayimenshini lamatsatfu (3-D)</p> <ul style="list-style-type: none"> - Beka tintfo tibe tincumbi letifaka ekhatsi tinombolo 1 kuya ku-9 ubuye ubala tintfo uphimisele. - Dlala emadomino etinombolo. <p>Lokubonakalako ungeke ukuphatse usebentisa bobunjiwa labangemada-yimenshini lamabili (2-D) nope tittombe</p> <p>Nika umfundzi ngamunye likhadi lesttombe, lelicashati, lenombolo nobe leligama lenombolo.</p> <p>Bafundzi balandzela ticondziso tathishela:</p> <ul style="list-style-type: none"> - Bafundzi bahlala bente indillinga. - Thishela ubita inombolo sib. 9. Bafundzi labanemakhadi lanesitfombe, licashati, inombolo nope ligama lenombolo lelimete 9, bahamba batungelete indillinga batsi “Nginemfica” - Phindza ngaletinye tinombolo. - Nangabe bonkhe bafundzi babe netifuba “Kuba” yinombolo, bita tinombolo ngekuhleleka kwato. - Bafundzi bayasukuma ubuye baphakamisa emakhadi abo Nangabe abitwa. - Buka kutsi bafundzi bayakwati yini kuthilela ngekulandzelana kusukela ku -1 kuye ku -9 enombolweni 9 sekuhlangene. 	<p>Lilanga 1</p>  <p>Emaculo etinombolo nemilolotelo</p> <p>Tintfo letisekklasini</p> <p>Emadomino etinombolo</p> <p>Lokubonakalako ungeke ukuphatse usebentisa bobunjiwa labangemada-yimenshini lamabili (2-D) nope tittombe</p> <p>Nika umfundzi ngamunye likhadi lesttombe, lelicashati, lenombolo nobe leligama lenombolo.</p> <p>Bafundzi balandzela ticondziso tathishela:</p> <ul style="list-style-type: none"> - Bafundzi bahlala bente indillinga. - Thishela ubita inombolo sib. 9. Bafundzi labanemakhadi lanesitfombe, licashati, inombolo nope ligama lenombolo lelimete 9, bahamba batungelete indillinga batsi “Nginemfica” - Phindza ngaletinye tinombolo. - Nangabe bonkhe bafundzi babe netifuba “Kuba” yinombolo, bita tinombolo ngekuhleleka kwato. - Bafundzi bayasukuma ubuye baphakamisa emakhadi abo Nangabe abitwa. - Buka kutsi bafundzi bayakwati yini kuthilela ngekulandzelana kusukela ku -1 kuye ku -9 enombolweni 9 sekuhlangene. 	<p>Sikhatsi lesiphakanyisiwe sekufundzisa:</p>

Liviki 36		Umsebentii munye welikiasi loheliwe loholowa nguThishea (tikhatsi tetifundvo) emamirithi ± 30 ngelilianga/Imisebenti yetibalo ± ngeliviki)		
Sinhoko	Emanotsi lacacisako	Tinsita letiphakanyisiwe	Budze besikhatsi lesilinganisiwe	
1.4 Chaza, ucatsanise ubuye uhlele tinombolo	<ul style="list-style-type: none"> • Catsanisa kutsi ngutiphi tintfo letimbili letigcogciwe kuleti: <ul style="list-style-type: none"> - kunyentti kuna - kuncane kuna (lokumbalwa) - kulingana na (kuyafana) <p>Lokuphatsekako usebentisa tintfo lettingemadayimenshini lamatsatu (3-D)</p> <ul style="list-style-type: none"> - Thishela uniketa tintfo letehlukene letifana nemacembe, ematje, timbonyo temabhoodla, emakhilayoni, emabholoki njii. <p>Bafundzi:</p> <ul style="list-style-type: none"> - Bayathlunga bente "tincumbi" sib. Emaije onkhe ndzawonye. - Babala inombolo yetintfo "letisencunjini" ngayinye. - Baknombisa kutsi ngulphi "licembu" "elinyentti kuna" "lelincane kuna" "naalellilingana na". <p>Emasethi lafaka ekhaphethini ubuye bakha tikhethle letimbili ngensorntfo.</p> <ul style="list-style-type: none"> - Bafundzi bahalla ekhaphethini sekutsi babeke tibali leti -2 estikhethleni sinye babuye babeke leti -4 kulesinye sikhethle. - Buta imibuto lefana nale: Ngusiphi sikhethle lesinetibali "letinyentti kuna" "letincane kuna" lesinenombolo "lefananako" yetibali? sib. "Sikhehle" lesinetibali leti-2 sinalokuncane kunesikhethle lesinetibali leti -4  <ul style="list-style-type: none"> - Bafundzi abakhe emasethi "alokunyentti kuna", "alokuncane kuna" kanye "nalokulinganako" ngetimombolo letifika ku-9. 	Lilanga 1		

Liviki 36	Umsebentni munye welikiasi lohleliwe loholwa nguThisela (tikhatsi tetfundvo) emaminiti ± 30 ngelilanga/Imisebenti yetibalo ± ngeliviki)		
Sihoko	Emanotsi lacacisako	Tinsita letiphakanyisiwe	Budze besikhatsi lesilinganisiwe
1.13 Kuhlanganisa nekususa	<ul style="list-style-type: none"> • Bala tibalo temagama tekuhlanganisa nekususa ngemilomo letifaka ekhatsi tinombolo 1 kuya ku-9 <p>Temlomo: Bala tintfo letisetjentiswa malanga onkhe urike ku-9.</p> <p>Bala uye phambili rasemuva urike ku- 9.</p> <p>Gcizelela kubala ngakubili ngekusebentisa imilolotelo yetinombolo.</p> <p>Gcizelela kubala ngetinombolo te-odinali;</p> <p>Thishela upaka tintfo leti- 6 emgenci. Khomba intfo ngayinye ngalesikhatsi ubala <i>kwekucala, kvesibili, kwestitsatu, kwesine, kvesihlanu, kwestifupha.</i></p> <p>Gcizelela lwaiti lwa “lokunyenti” “nalomkumbalwa”</p> <p>Shaya tandla emahlandla lamanyentiMANI</p> <p>Shaya tandla emahlandla lambalwa. Thishela ushaya tandla emahlandla layi-9</p> <p>Buta kutsi ngukuphi kushaya tandla lokube kunyenti/ mbalwa.</p> <p>Umnyakato</p> <ul style="list-style-type: none"> - Thishela ubita umfundzi munye aye phambili. - Thishela ubeka linani lelehulkile lebuhluu (kufika ku-9) esandleni semfundzi ngasinye sib. Leti -4 esandleni sinye naleti -5 kulesinye sandla. <p>Thishela uhlela bafundzi ngemacembu alabayimfica.</p> <ul style="list-style-type: none"> - Bafundzi bahlaa esiyilweni. - Thishela ucela bafundzi lababili kutsi basukume. - Thishela ubuta kutsi: Bangaki bafundzi labahleti esiyilweni? 	<p>Lilanga 1</p> <p>Emaculo etinombolo nemilolotelo</p>	

Sikhatsi lesiphakanyisiwe sekufundzisa:				
Liviki 36	Umsebenti munye welikiasi lohleliwe loholwa nguThishela (tikhatsi tetifundvo) emamirithi ± 30 ngelianga/Imisebenti yetibalo ± ngeliviki)	Emanotsi lacacisako	Tinsita letiphakanyisiwe	Budze besikhatsi lesilinganisiwe
1.13 Kuhlanganisa nekususa	<p>Lokuphatsekako usebentiisa tintto letingemadyimenshini lamatsatfu (3-D)</p> <ul style="list-style-type: none"> - Bafundzi bahlaa ekhaphethini. - Umfundzi ngamunye utfola buhlaal lobu -8 lobufakwe enkomishini yepulasitiki lenelisosso. - Tsatsa buhlaal lobu -6 enkomishini ubuye ububeka etukwewisoso. Tsatsa lobunye buhlaal Bungaki buhlaal lobusemekomishini? 6 na 2 → 8. - Tsatsa buhlaal lobu -4 esosweni ubuye ubufake enkomishini yeplastiki. Tsatsa lobunye buhlaal lobu -4 ubuhlanganise nebuhlaal lobusekosweni. Bungaki buhlaal lobusesosweni? 8 ususe 4 ususe 4 → 0. - Susa buhlaal lobu -4 enkomishini yeplastiki buye esosweni. Bungaki buhlaal lobusele enkomishini yeplastiki? 8 na 4 → 4 - Susa buhlaal lobu-4 enkomishini yeplastiki. Kusele bungaki esosweni? 4 na 4 → 8 <p>Lokubonakalako ungeke ukuphatse usebentisa bobunjwa labangemada-yimenshini lamabili (2-D) nobe titfombe.</p> <p>Hlukanisa bafundzi ngemacembu. Niketa licembu ngalinye isethi yemafleshikhadi etitfombe.</p> <ul style="list-style-type: none"> - Bala letitfombe leti -6 letisefleshikhadini. Nangabe uhianganisa nefleshikhadi lenetitfombe leti -2, utawuba naletingaki titfombe? 6 na 2 → 8. - Bala letitfombe leti -8 ekhadini letitfombe. Nangabe umbonya titfombe leti -3, tingaki titfombe lotibonako? 8 ususe 3 → 5 - Paka linani lelifanako letibali. 	<p>Enta taba Nangabe ungenato tinkomishi nemasoso.</p>	Lilanga 1	
2.1 Emaphethini e-Jomethri	<ul style="list-style-type: none"> • Tsatsela iphethini yemsindvo <p>Umnyakato</p> <ul style="list-style-type: none"> - Thishela uhlukanisa bafundzi ngemacembu lamatsatfu. Hleba ubuye ukhombise ecenjini ngalinye umsindvo weluulobo lwestifutsi lebalumele. - Licembu ngalinye lenta umsindvo lelinketwe wona ngalesikhatsi thishela alikhomba sib. - Vumm, hhaamm, brmm/ vumm, hhaamm, brmm. 	<p>Titfombe tetitfutsi letintsfatu letihamba emgwaceni nobe imishini.</p>	Lilanga 1	

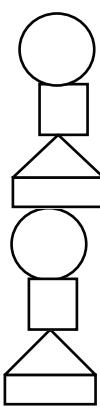
Sikhatsi lesiphakanyisiwe sekufundzisa:													
Liviki 36	Umsebentii munye welikiasi loheliwe loholwa nguThishea (tikhatsi tetfundvo) emamirthi ± 30 ngelilanga/Imisebenti yetibalo ± ngeliviki)	Emanotsi lacacisako	Tinsita letiphakanyisiwe	Budze besikhatsi lesilinganisiwe									
Sinhoko	<ul style="list-style-type: none"> Gcizetela Iwati Iwekusebenta ngedadha <p>Lokuphatsekako usebentissa tintfo letingemadaiyimenshini lamatsatfu (3-D)</p> <p>Asidiale umdala:</p> <p>Hlunga imibala lekhetsiwe yenhlama yekudala ubuye uyibekke ngemacembu kulungiselela liviki lelilandzelako sib.</p> <ul style="list-style-type: none"> Inkinga lekumele isonjuluwe kutifola kutsi kumele ube njani umbala wenhlama yekudala kuleliviki lelilandzelako. <p>Gcogca ubuye uhlunge idatha</p> <ul style="list-style-type: none"> Sebentisa tintfo letiphatsekako kwakha igrafu njengemabholoki, kupaka emakkhiyubhi, emabholoki e-Lego nobe e-Duplo lamele imibala yenhlama lohela kuyenta sib. Loluhlata njengesibhakabhaka, loluphuti naloluuhlata njengejani. Umfundzi ngamunye ukhetsta ibhuloki lemele umbala wenhlama yekudala lawutsandzako walelo vikii. <p>Dvweba igrafu</p> <ul style="list-style-type: none"> Emabholoki apakwa ngekwemibala ephosteni. <p>Fundza ubuye uhummushe lithbeula</p>	<p>Lilanga 1</p> <p>Umbala loluhlata sasibhakabhaka, loluphuti nelogo leluuhlata satjani, i-Duplo- nobe ibhuloki yeyunifikasi. (Kusettentiswe luholbo luyne kuphela)</p>											
5.1	<p>Gcogca ubuye uhlunge tintfo</p> <p>Asidiale umdala:</p> <p>Hlunga imibala lekhetsiwe yenhlama yekudala ubuye uyibekke ngemacembu kulungiselela liviki lelilandzelako sib.</p> <ul style="list-style-type: none"> Inkinga lekumele isonjuluwe kutifola kutsi kumele ube njani umbala wenhlama yekudala kuleliviki lelilandzelako. <p>Gcogca ubuye uhlunge idatha</p> <ul style="list-style-type: none"> Sebentisa tintfo letiphatsekako kwakha igrafu njengemabholoki, kupaka emakkhiyubhi, emabholoki e-Lego nobe e-Duplo lamele imibala yenhlama lohela kuyenta sib. Loluhlata njengesibhakabhaka, loluphuti naloluuhlata njengejani. Umfundzi ngamunye ukhetsta ibhuloki lemele umbala wenhlama yekudala lawutsandzako walelo vikii. <p>Dvweba igrafu</p> <ul style="list-style-type: none"> Emabholoki apakwa ngekwemibala ephosteni. <p>Fundza ubuye uhummushe lithbeula</p>	<p>5.3</p> <p>Coca ubuye ubike ngetintfo letigccgiwe</p>	<table border="1"> <tr> <td>Loluuhlata njengesibhakabhaka</td> <td>Loluuhlata</td> <td>Loluuhlata njengetjani</td> </tr> <tr> <td><input type="checkbox"/> <input type="checkbox"/></td> <td><input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></td> <td><input type="checkbox"/> <input type="checkbox"/></td> </tr> <tr> <td>2</td> <td>4</td> <td>2</td> </tr> </table>	Loluuhlata njengesibhakabhaka	Loluuhlata	Loluuhlata njengetjani	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	2	4	2	
Loluuhlata njengesibhakabhaka	Loluuhlata	Loluuhlata njengetjani											
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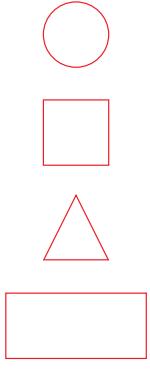
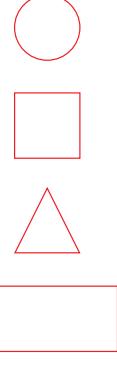
Liviki 37	Sikhatsi lesiphakanyisiwe sekufundzisa: Umsebenti munye welikiasi lohleliwe loholwa nguThishela (sikhatsi sesifundvo) emaminithi ± 30 ngelilangab (imisebenti yetibalo ± ngeleviki)		
Sihoko	Emanotsi lacacisako	Tinsita letiphakanyisiwe	Budze besikhatsi lesilinganisiwe
1.1 Bala tintfo	<ul style="list-style-type: none"> Ngenisa Inshokutsi yenombolo 0 (licanda) <p>Temimo: Bala tintfo letisefijentiswa malanga onkheonke urike ku -10 ucale ecandzeni. Bala uye phambili nasemuva urike ku -10 ucale ecandzeni.</p> <p>Gcizelela kubala ngakubili usebentisa imiolotelo yetinombolo</p> <p>Gcizelela kubala ngetinombolo te-odinali:</p> <p>Thishela upaka tintfo leti -6 emgenci. Khomba intfo ngayinye ngalesikhatsi ubala <i>kwekucafa, kwestibili, kwestitsattu, kwestine, kwestihantu, kwestifupha.</i></p> <p>Gcizelela Iwati Iwa “lokunyenti” “nalokumbalwa”</p> <p>Shaya tanda emahlandia lamanyentiMANI</p> <p>Shaya tanda emahlandia lambalwa. Thishela ushaya tanda emahlandia la -10</p> <p>Buta kutsi ngukuphi kushaya tanda lokube kunyenti/ mbalwa.</p> <p>Thishela uyachazza kutsi licandza lisho kutsi akunalutfo nekutsi kubala mbamba kucala ku-1.</p> <p>Umnyakato</p> <ul style="list-style-type: none"> Thishela ukhombisa bafundzi ligama lenombolo yelicandza. Bafundzi kumele batfole kutsi ngusiphi sitfo semtimba lesingakha licandza sib. Imilomo yebafundzi <ul style="list-style-type: none"> Iminwe yebafundzi  <p>Lokuphatsekako usebentisa tintfo letingemadayimenshini lamatsatfu (3-D)</p> <ul style="list-style-type: none"> Thishela ufaka sibali sinye esandleni sakhe sinye ubuye angafaki lufo kulesinye sandia. Uyula sandia sakhe sinye abuye akhombisa bafundzi sibali sinye avula lesinye sandia sakhe akhombise bafundzi kutsi akunalutfo. Lomsebenti ungentiwa kusejtentiswa bafundzi. <p>Lokubonakalako ungeke ukuphatse usebentisa bobunjwa labangemada-yimenshini lamabili (2-D) nobe titfombe.</p> <ul style="list-style-type: none"> Thishela ukhombisa bafundzi ifleshikkadi lete titfombe nenombolo 0 	<input type="checkbox"/> 1 <input type="checkbox"/> 0	Lilanga 1 Emaculo nemillolotelo yetinombolo

Liviki 37	Sikhatsi lesiphakanyisiwe sekufundzisa: Umsebenti muny weleklasi lohleiwei loholwa nguThishela (sikhatsi sesifundvo) emaminithi ± 30 ngelilangab (imisebenti yetibalo ± ngeleviki)		
Sihoko	Emanotsi lacacisako	Tinsita letiphakanyisiwe	Budze besikhatsi lesilinganisiwe
1.1 Bala tintfo	<ul style="list-style-type: none"> Ngenisa Inshokutsi yenombolo 10 <p>Temlomo: Bala tintfo letisefijentiswa malanga onkheonkhe ufile ku -10. Bala uye phambili nasemuva ufile eli -10. Kubala ngenhloko 0 - 10</p> <p>Gcizelela kubala ngakubili usebentisa imilolotelo yetinombolo</p> <p>Gcizelela kubala ngetinombolo te-odinali:</p> <p>Thishela upaka tintfo leti -6 engcen. Khomba intfo ngayinye ngalesikhatsi ubala <i>kwekucala, kwestibili, kwestisattu, kwestine, kwestilanan, kwestifupha.</i></p> <p>Gcizelela Iwati Iwa “Iokunyenti” “naokumbawwa”</p> <p>Shaya tanda emahlandla lamanyentiMANI</p> <p>Shaya tanda emahlandla lambalwa. Thishela ushaya tanda emahlandia la -10</p> <p>Buta kurisi ngukuphi kushaya tanda lokube kunyentii/ mbalwa.</p> <p>Umnyakato</p> <p>Bafundzi:</p> <ul style="list-style-type: none"> - Ngababili bakhna inombolo yeli-10 basebentise imitima yabo (bafundzi laba -4) - Babala kufika eli -10 ngalesikhatsi banyakata bahambisana nekushaywa kwestigubhu. - Baphakamisa iminwe le -10. - Badwweba inombolo 10 esantini/ esiyilweni/ phasi ubuye bahamba etukwayo. - Bazuba emahlandia la -10 - Faka tinombolo tekhadibodi letijutjiwe esikhwameni setintfo letiwiwa ngekubanjiwa. - Sebentisa isethi yemafleshikhadi lanetitombé letimele tinombolo sib. Emabhola lamabilii lasekhadini nemombolo 2. Umfundzi “utsintsaa” tinombolo letikufelihnegi ubuye utimatanisa nemakhadi. 	<p>Lilanga 1 Khetsa imisebenti kuphela.</p> <p>Emaculo nemilolotelo yetinombolo</p> <p>Tinombolo tekhadibodi letijutjiwe Emafleshikhadi lamakhulu etinombolo</p>	

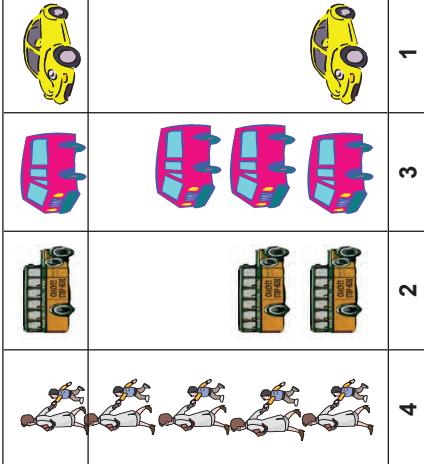
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Sihoko	Emanotsi lacacisako	Tinsita letiphakanyisiwe	Budze besikhatsi lesilinganisiwe
1.1 Bala tintfo	<p>Lokuphatsekako usebentisa tintfo letingemadaiyimensehini lamatsattu (3-D)</p> <p>Bafundzi:</p> <ul style="list-style-type: none"> - Bapaka tinombolo tabo telicingo basebentisa emakhadi etinombolo lamakhulu. Bente batu ngelicandza lelimela inombolo 10 - Tfutukisa lwati lwekugina tinombolo ngekuvumela bafundzi kutsi bapake tibai letisihlanu nobe nguyiphi intfo ngetindlela letenlukene sib. <p>Nakubalwa, inombolo yetintfo ayiphasazanyisa yissayizi nobe kubekaka, nobe titeluhlobo lunye. Siboneko:</p> <ul style="list-style-type: none"> - Hlea emakinobho lali-10, emapeniseli lali-10, emahhulanhuhu lali-10, bafundzi labali-10 njil. - Tibale ngetindlela letehukile sib. Tibale tisakatekile, tisondzelene, tisemgceni nobe tipakelene. 	<p>Emakhadi lanetinombolo tebfundzo telicingo</p>	<p>Lilanga 1 Khetsa imisebenti kuphela.</p>

Liviki 37	Sikhatsi lesiphakanyisiwe sekufundzisa: Umsebenti munye wellikasi lohleliwe loholwa nguthishela (sikhatsi sesifundvo) emaminithi ± 30 ngellilangab (imisebenti yetibalo ± ngeliviki)	
Sihloko	<p>Emanotsi lacacisako</p> <p>1.1 Bala tintfo</p> <p>Lokubonakalako ungeke ukuphatse usebentisa bobunjwa labangemada-yimenshini lamabili (2-D) nobe titfombe.</p> <p>Bafundzi balandzela ticondziso tathshela:</p> <ul style="list-style-type: none"> - Babeka tintfo ngetincumbi letifaka ekhatsi tinombolo 1 kuya eli-10 ubuye ubala tintfo ngekuphimisela. <p>Thishela uhlukanisa bafundzi ngemacembu lasihlanu.</p> <p>Bafundzi:</p> <ul style="list-style-type: none"> - Hlela ubuye ucondzanise emakhadi etifombe, emafleshikhadi emacashati, timphawu nemagama etinombolo ngekulandzelana kufika ku-10 sib. 	<p>Tinsita letiphakanyisiwe</p> <p>Budze besikhatsi lesilinganisiwe</p> <p>Lilanga 1 Khetsta imisebenti kuphela.</p> <p>Tintfo letisekclasini</p> <p>Isethi yemakhadi etifombe lafika ku -10</p> <p>Tribali</p>

Liviki 37	Sikhatsi lesiphakanyisiwe sekufundzisa: Umsebenti munye welikiasi lohleliwe loholwa nguThishela (sikhatsi sesifundvo) emaminithi ± 30 ngelilangab (imisebenti yetibalo ± ngeliviki)	Budze besikhatsi lesilinganisiwe
Sihoko	Emanotsi lacacisako	<p>Tinsita letiphakanyisiwe</p> <p>Lilanga 1</p> <p>Ləsibonelo sephethini lenkiwe sidvwetjwe esiyilweni/ phasi/ evulanda</p> <p>Umnyakato</p> <ul style="list-style-type: none"> Diala umdialo wephethini-“I-Hop scotch” Hlanganisa neSifundvo Sekutivocavoca esifundvveni Semakhono ekuphilia. <p>- Hambahamba ujikelete eklasini. Ngekubonakala kweluphawu nobe ngekuma kwemculo, thishela ubita ligama labunjwa. Bafundzi bakha lobunjwa ngeminwe yabo. Bangabuye bakhe emacembu bakhe bobunjwa ngemitimba yabo.</p> <p>- Dweba lephethini lengentasi esiyilweni/ phasi nobe evulanda kute bafundzi bahambe ngendlela letsite.</p>  <ul style="list-style-type: none"> Chaza iphethini sib. Buta imibuto lefana: “Ngumuphi bunjiwa lota emuva kwacalantsatfu wekucala ?” “Ngumuphi bunjiwa losenbi kwendilinga yekucala ?” <p>Bafundzi balandzeza lephethini ngalendlela lelandzelako:</p> <ul style="list-style-type: none"> Thishela utsi: Jona, wena uzuba ngembi kwaMelisa”, Mariya, ungazuba nasekuzube Kabelo” Zuba ngetinyawo totimbii kucalandze Zuba ngelunyawo lwasencelle kucalantsatfu Zuba ngelunyawo lwasekudla kusikwele Zuba ngetinyawo totimbili endilingeni ubuye ugucula umtimba wakho useme endilingeni Cedzela lephethini

Liviki 37	Sikhatsi lesiphakanyisiwe sekufundzisa: Umsebenti munye welikiasi lohleliwe loholwa nguThishela (sikhatsi sesifundvo) emaminithi ± 30 ngelilangab (imisebenti yetibalo ± ngeliviki)		
Sihoko	Emanotsi lacacisako	Tinsita letiphakanyisiwe	Budze besikhatsi lesilinganisiwe
2.1 Emaphethini e-Jomethri	Lokuphatsekako usebentisa tintfo letingemadai'menshini lamatsatfu (3-D) - Umfundzi ngamunye utfola labobunjwa labalandzelako: 	Umfundzi ngamunye utfola labobunjwa labalandzelako: 	Lilanga 1
3.1 Kubekeka, kuteayeta nekubukeka	<p>Thishela wakha iphethini ngabobunjwa bakhe.</p> <p>Bafundzi:</p> <ul style="list-style-type: none"> - Batsatsela emaphethini athishela basebentisa labobunjwa labangenha. - Batakhela abo emaphethini ngabobunjwa labanikwe. <p>Landzela tinhombandela kunya'kata nobe kutibeka emkhatsini wendzawo letsite neseukuda</p> <ul style="list-style-type: none"> • Tfutukisa lwatti Iwenkhombandela ngekusebentisa ticondziso letifaka ekhatsi sencelle umnyakato <p>Bafundzi abalandzele sicondziso sathishela:</p> <ul style="list-style-type: none"> - Buka etulu/ buka phasi - Goba ubuke phasi - Phakamisa lunyawo lwestencele/ phakamisa lunyawo lwestekudla - Khasa uijkelete litafula - Hamba uye phambili/ hamba uye emuva - Lula sandia sakho/ finyeta sandia sakho - Mani eceleni lesekudla lestitulo/ Mani eceleni lesancele lestitulo - Mani eceleni embi kwesititulo sakho/ Mani eceleni emuva kwesititulo sakho - Mani emkhatsini wetitudo letimbili - Buka kusekudla/ buka kusencelle - Gucukela enyaweni lwakho lwestancele/ gucukela enyaweni lwakho wlesekudla 	Tinsita letiphakanyisiwe: Silulumagama: Etulu/ phasi Ekhatsi/ ngaphandle Ngetulu/ ngaphasi Phambili/ emuva Phambili kwe / emuva kwe Licai linye / lelinye licala Edvute ne Sencelle / sekudla Emkhatsini	Lilanga 1

Liviki 37	Sikhatsi lesiphakanyisiwe sekufundzisa: Umsebenti munye welikiasi loheliwei loholwa ngu Thishela (sikhatsi sesifundvo) emaminithi ± 30 ngelilangab (imisebenti yetibalo ± ngeliviki)	Budze besikhatsi lesilinganisiwe
Sihloko	Emanotsi lacacisako	Tinsita letiphakanyisiwe
3.1 Kubekaka, kutetayeta nekutukuka	<p>Lokuphatsekako usebentisa tintfo letingemadayimenshini lamatsatfu (3-D)</p> <p>Bafundzi abente loku lokulandzelako ebhodini:</p> <ul style="list-style-type: none"> - Dwveba tindingga ubuye uchubeke nekujikeyeta uphindze uijkelete  - Dwveba imigca lecondzile lesuka kusencele kuya kusekudla  - Dwveba imigca iye etulu naphasi  - Thishela udvwveba emacaschatu lamabili ubuye umfundzi udvwveba umugca wekuwahlanganisa.  	<p>Ibhodi</p> <p>Lilanga 1</p>

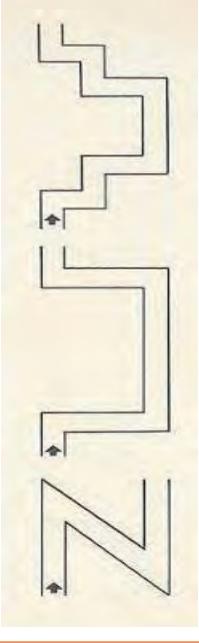
Liviki 37	Sikhatsi lesiphakanyisiwe sekufundzisa: Umsebenti munye weleklasi loheliwe loholwa nguThishela (sikhatsi sesifundvo) emaminithi ± 30 ngelilangab (imisebenti yetibalo ± ngeleviki)	Budze besikhatsi lesilinganisive	Lilanga 1				
Sihloko	Emanotsi lacacisako	Tinsita letiphakanyisiwe					
5.1	<ul style="list-style-type: none"> Gcizelela Iwati Iwekusebenta ngedatha Lokuphatsekako usebentisa tintfo letingemadymenshini lamatsattu (3-D) <ul style="list-style-type: none"> Thishela ucocisana nebafundzi kutfola kutsi umfundzi ngamunye uta ngani esikolweni. Wakha igrafutitfombe lekhombisa bafundzi labahamba ngetinyawo, labahamba ngethekisi, labeta ngetimoto tebatali nalabeta ngebhasi sib. 						
5.2	<p>Veta tintfo letigcogciwe kugrafu</p>  <p>Tifombe tethekisi, ibasi, imoto nemfundzi lohamba ngetinyawo letiutjive ephrebhabhukwini. Nangabe ungenato tifombe enta taba tekutidvwebela takho tifombe.</p>	<table border="1"> <tr> <td>4</td> <td>2</td> <td>3</td> <td>1</td> </tr> </table>	4	2	3	1	<ul style="list-style-type: none"> Hlatiya imiphumela ngekubuta imibuto
4	2	3	1				
5.3	<p>Chaza ubuye ubike ngetintfo letigcogciwe</p>						

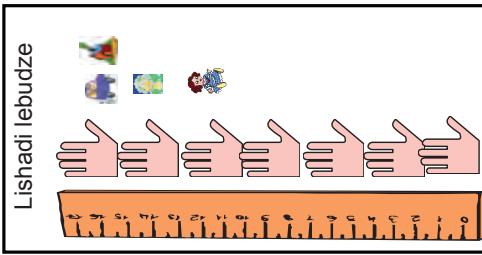
Liviki 38	Sikhatsi lesiphakanyisiwe sekufundzisa: Umsebenzi munye welikasi lohleiwe loholwa nguTishela (sikhatsi sesifuncvo) emaminithi ± 30 ngelilanga(lmisebenzi yetibalo ± ngeliviki)		
Sihoko	Emanotsi lacacisako	Tinsita letiphakanyisiwe	Budze besikhatsi lesilinganisiwe
1.1 Bala tintfo	<ul style="list-style-type: none"> Gcizelela Iwati lolutfolakele evikini 37 lolufaka ekhatsi ikwenombolo 0 kuya ku-10 Temlomo: Bala tintfo letiseljetintswa malanga onkheonkhe ufile ku -10 Bala uye phambili nasemuva ufile ku -10 Bala ngenhloko 0 - 10 Gcizelela kubala ngakubili usebenntisa imilolotelo yetinombolo Gcizelela kubala timbolo te-odinali: Tishela upaka tintfo leti -6 emgenci. Khomba intfo ngayinye ngalesikhatsi ubala <i>kwekuca/a, kweшибili, kwesitsatfu, kwesine, kwestihau, kwesitupha.</i> Gcizelela Iwati Iwa “okunyenti nalokumbalwa” Shaya tandla emahlandia lamanyentiiMANI Shaya tandla emahlandia lambalwa. Tishela ushaya tandla emahlandia la -10 Buta kutsi ngukuphi kushaya tandla lokube kunyentii/ mbalwa. 	<p>Lilanga 1 Nobe</p> <p>Khetsa kuphela leminye imisebenzi.</p> <p>Emaculo nemilolotelo yetinombolo</p>	<p>Lilanga 1 Nobe</p> <p>Khetsa kuphela leminye imisebenzi.</p>
	<p>Umnyakato</p> <ul style="list-style-type: none"> - Tishela udvwewba tindilinga leti-11 (0 kuya ku-10) enkhundeni yetemidalo nobe emahhulahhubhu. Bhala tinombolo 0 kuya ku-10 ekhatsi endilingeni. Tishela ubita inombolo abuye umfundzi aphosa ibhinibhegi yakhe ekhatsi endilingeni lebitwe. - Khumbuta bafundzi kutsi 0 usho kutsi akunalutfo. Nangabe umfundzi aphosa ibhinibhegi kulendilinga lenenombolo elicandza, utawuphumua emdalaweni. - Umfundzi uphosa ibhinibhegi yakhe endilingeni lehambisana nelikhadi lelinelicashati nobe stifombe lesikhonjisiswe nguthishela. - Umfundzi uphosa ibhinibhegi yakhe endilingeni lekhonjisiswe kulisidinombolo lelikhonjisiswe nguthishela. - Chubeka ngekusebenntisa emakhadi emagama etinombolo ngendela lefanako. 	<p>10 emabhinibhegi Dwewba tindilinga esantini/ phasi nobe esiyilwene nobe usebentise emahhulahhubhu</p>	

Liviki 38	Sikhatsi lesiphakanyisiwe sekufundzisa: Umsebenti munye welikiasi lohleiwe loholwa nguThishela (sikhatsi sesifundvo) emaminiti + 30 ngelilanga(lmisebenti yetibalo ± ngeliviki)		
Sihoko	Emanotsi lacacisako	Tinsita letiphakanyisiwe	Budze besikhatsi lesilinganisiwe
1.3 Timpawu nemagama etinombolo	Kubona nekutfola timphawu nemagama etinombolo Lokubonakalako ungeke ukuphatse usebentisa bobunjwa labangemada-yimenshini Iamabili (2-D) nobe tifombe. Asidiale umdalo: <ul style="list-style-type: none"> - Thishela ubhala ligama lenombolo ecaleni linye lelikhadi ubuye ubhala inombolo kulelinye licala lelikhadi kufaka ekhatsi tinombolo 0 kuya ku-10 (Sebentisa emasethi lambalwa kute umfundzi ngamunye abe neyakhe) - Bafundzi "bafundza" ligama lenombolo ubuye bacambela inombolo. - Bagucula liikhadi ubuye bayatilungisa. 	Isethi yemakhadi etifombe lafika ku -10 Emakhadi lafaka ekhatsi tinombolo 1-10 laneligama lenombolo ecaleni linye kanye neluphawu Iwenombolo ecaleni linye (Yakha emasethi lambalwa kute umfundzi ngamunye abe neyakhe)	Lilanga 1
1.4 Chaza, ucatsanise ubuye uhole tinombolo	• Ngenisa kubala lokukhombisa kubekeka - kwekucala, kwesitsatfu kufika kukwesitupha kwekugcina	Lolwati luffutufukiswa ngekuhamba kwesikhatsi nangekusebentisa nekullebula timo temvelo ngendieila letenteka ngayo eklasini sib. Kufola kute baye ngaphandle "Siya wekucala, Helen wesibili"	Titulo letisihlanu Isethi yemakhadi etifombe lafika ku -10 Yenta taba nangabe kute titepisi

Liviki 38	Sikhatsi lesiphakanyisiwe sekufundzisa: Umsebenzi munye welikasi lohleiwe loholwa nguThishela (sikhatsi sesifuncvo) emaminithi ± 30 ngelilanga(lmisebenti yetibalo ± ngeliviki)		
Sihoko 1.7 Kuhlanganisa nekususa	<p>Emanotsi lacacisako</p> <ul style="list-style-type: none"> Sombulula ngemlomo tinkinga tetibalo temagama (tibalo tetindzaba) engcikitsini lefaka ekhattsi inombolo 10 <p>Temlomo: Bala tintlo letisetjetintswa malanga onkheonkhe ufile ku -10 Bala uye phambili nasemuva ufile ku -10</p> <p>Gcizelila Iwati Iwa “Iokunyenti nalokumbalwa”</p> <p>Shaya tandla emahlandla lamanyentiMANI</p> <p>Shaya tandla emahlandla lambalwa. Thishela ushaya tandla emahlandla la -10 Buta kutsi ngukuphi kushaya tandla lokube kunyenti/ mbalwa.</p> <p>Sibonelo:</p> <ol style="list-style-type: none"> 1. Bekunemamantfombatane lasi -5 endlini. Kwangena lamanye lasi -5. Sekunamangaki nyalo? 5 nesi- 5 → 10. 2. Bala tibali leti -7. Bala ungete lokubili. Bala ungete kune. Kungaki sekukonkhe? Si-7 naku- 2 naku- 1 → 10. 3. Bekunetibali leti -10 etafuleni. Kusele leti -4 kuphela. Kususwe letingaki? 10 susa letisi-6 → kule-4. 4. Unetimabuli leti -10. Susa leti -3. Usele naletingaki? 10 susa 3 → 7 5. Ubhake emakhekhe la -10. Utsengise lama -2. Usele nalamangaki? 	<p>Tinsita letiphakanyisiwe</p> <p>Lilanga 1</p>	<p>Budze besikhatsi lesilinganisiwe</p>

Liviki 38	Sikhatsi lesiphakanyisiwe sekufundzisa: Umsebenti munye welikasi lohleiwe loholwa nguThishela (sikhatsi sesifuncvo) emaminithi ± 30 ngelilanga(lmisebenti yetibalo ± ngeliviki)			
Sihoko	3.1 Kubekeka, kutetayeta nekubukeka	Landzela tinhombandlela kunyaakata nobe kuma endzaweni lesekkasini Umnyakato <ul style="list-style-type: none"> - Thishela ucela bafundzi kutsi beme ngemuva eklasini (umnyango ukhombisa kutsi kuphambili kweleklasi) - Thishela ucela bafundzi kutsi beme ecaleni linye leliklassi - Thishela ucela bafundzi kutsi beme ngaphambili eklasini Lokuphatsekako usebentisa tintfo letingemadaiyimensehini lamatsattu (3-D) Umsindvo unenshokutsi Bafundzi balalela: <ul style="list-style-type: none"> - Insimbi - Imfengwane - Lithulusi lemculo - Shayanisa emabhuolki lamabili Bafundzi bavala emehlo babuye balalele, batfole umsindvo wensimbi nobe imfengwane nobe lithulusi lemculo. <ul style="list-style-type: none"> - Bafundzi bavala emehlo babuye batfole kutsi umsindvo uchamukaphi. Bangacala ngekuphosa ibhinibhegi bayicondzise ngalapha umsindvo uchamuka ngakhona babuye basho kutsi umsindvo ukuphi sib. Phambili eklasini, edvute nelikhabethi lemabhuku njii. - Thishela utjela bafundzi laba -4 kutsi beme basekele elubondzeni iweiklasi ngamunye abe nelithulusi lemculo lelehiukile (Insimbi, imfengwane, lithulusi lemculo nemabhukoi lamabili) - Thishela ukhombisa ngesandla sakhe kubafundzi labatsite kutsi bente umsindvo ngemathulusi abo emculo sib. Insimbi kupheia. - Kugcizeleta lwati lwesencelle nelwesekudla, tfumela bafundzi lababili labeme phambili nasemuva eklasini babuye kula ba labanye bafundzi. - Phindza lomsebenti ugile emisindvveni lechamuka kusencelle nesekudla seliklassi. - Bafundzi batsi "sencelle" Nangabe umsindvo uchamumuka kusencelle, batsi "sekudla" Nangabe umsindvo uchamuka kusekudla.	Tinsita letiphakanyisiwe Lilanga 1	Budze besikhatsi lesilinganisiwe

Liviki 38	Sikhatsi lesiphakanyisiwe sekufundzisa: Umsebenzi munye welikasi lohleiwe loholwa nguThishela (sikhatsi sesifuncvo) emaminithi ± 30 ngelilanga(lmisebenti yetibalo ± ngeliviki)	Emanotsi lacacisako	Tinsita letiphakanyisiwe	Budze besikhatsi lesilinganisiwe
Sihoko				Lilanga 1
3.1 Kubekaka, kutetayeta nekubukaka	<p>Lokuphatsekako usebentisa tintfo letingemadymenshini lamatsattu (3-D)</p> <ul style="list-style-type: none"> - Bafundzi basebentisa ibhuloki, sib. Hambisa ibhuloki ihambelane nesitulo <ul style="list-style-type: none"> o Hambisa uye emuva / hambisa uye phambilii. o Mani kusencelle sesitulo / Mani esekudla sesitulo. - Mani emkhatsini wetitulu letimbili. - Hlunga ticatfulu tasesenole netasesekudla. <p>Lokubonakalako longeke ukuphatse usebentisa bobunjiwa labangemada-yimenshini lamabili (2-D) nobe tifrombe.</p> <p>Bafundzi bacedzela liphepha lekusebentela basebentisa likhilayoni kudvweba umugcai emkhatsini wemalayini sib.</p> 	<p>Liphepha lekusebentela nekhilayoni</p>		

Liviki 38	<p>Sikhatsi lesiphakanyisiwe sekufundzisa: Umsebentzi munye welikiasi lohleiwei loholwa nguThishela (sikhatsi sesifuncvo) emaminithi ± 30 ngelilanga(lmisebenti yetibalo ± ngeliviki)</p>		
Sihoko	Emanotsi lacacisako	Tinsita letiphakanyisiwe	Budze besikhatsi lesilinganisiwe
4.2 Budze	<p>Catsansa ngekwenta ubuye uhlele tintfo usebentisa silulumagama lesifanele kuchaza</p> <ul style="list-style-type: none"> • Kala budze bebafundzi ngethephu <p>Umayeto</p> <ul style="list-style-type: none"> - Buka ethemini yekucala neyesitsattu ngalesikhatsi kukalwa budze bebafundzi ngekusejtientiswa tandla eshadini lebude. - Phindza ukale budze bebafundzi. - Thishela ubeka ithephu edvute nestifombe setandla eshadini lebude. - Chazela bafundzi kutsi sisebentisa lithlusi lerukala lelihlelekile, loku ngulokusetjentiswa ngumake ngalesikhatsi aftunga timphahla. - Manje budze babo abusito tandla letishumi kodwya sebuymitha yinye neli- 10 senthimitha - Bafundzi bangacatsanisa budze babo. Ngubani lomudze kunabo bonkhe/ lomfisha kunabo bonkhe eklasini. <p>Lokuphatsekako usebentisa tintfo letingemadayimenshini lamatsaffu (3-D)</p> <ul style="list-style-type: none"> - Umfundzi ulala esiyilweni, labanye babeka emabholoki ekwakha (emasayizi lafanako) emgceni eceleni nemtimba wemfundzi. - Thishela unika sicondziso: "Yakha intfo lendze/ lemfisha kunemngani wakho" 	 <p>Lishadi lebude</p>	<p>Lishadi lebude Ithephu</p>

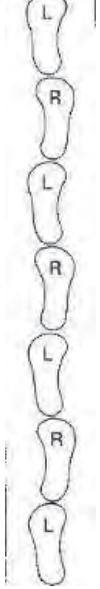
Liviki 39	Sikhatsi lesiphakanyisiwe sekufundzisa: Umsebenti munye welikiasi loheliwe loholwa nguThishela (sikhatsi sesifundo) emaminiti ± 30 ngelilanga(lmisebenti yetibalo ± ngeliviki)		
Sinhoko	Emanotsi lacacisako	Tinsita letipifikanyisiwe	Budze besikhatsi lesilinganisive
1.1 Bala tintfo	<ul style="list-style-type: none"> Gcizelela inshokutsi yenombolo 10 Temlomo: Bala tintfo letisetjentiswa malanga onkheonkhe ufile ku -10. Bala uye phambili nasemuva ufile ku -10. Kubala ngenhloko 0 - 10 <p>Gcizelela kubala ngetinombolo te-odinali: Thishela upaka tintfo letisi -6 emgceni. Khomba intfo ngayinye ngalesikhatsi ubala kwekucafa, kwestibili, kwestisatfu, kwestine, kwestihani, kwestifupha.</p> <p>Gcizelela Iwati Iwa “lokunyenti nalokumbalwa”</p> <p>Shaya tanda emahlandla lamanyentiMANI</p> <p>Shaya tanda emahlandla lambalwa. Thishela ushaya tandla emahlandla la -10</p> <p>Buta imibuto kutsi ngukuphi kushaywa kwetandla lokube kunyenti/ mbalwa.</p> <p>Umnyakato Bafundzi:</p> <ul style="list-style-type: none"> - Abasho umlolotelo wetinombolo basebentisa iminiwe lelishumi. - Ababale kutsi thishela ushaya kangaki etafuleni babuye batsatsele lokwentiwa nguthsihela. - Shaya tandla tabo emahlandla lalishumi. - Bala ngesigci ngalesikhatsi bafundzi behla titepisi, bazuba bangena baphuma kumahhuihahhubhu. - Shaya tinyawo phasi ulandezle sigci. <p>- Bafundzi labalishumi bema bakhe indilinga kube nemantji emkhatsini, umfundzi ngamunye ubamba ibhinibhegi. Bafundzi abapnose emabhinibhegi emanntji babuye bachubekе bafike eli- 10. Bafundzi kufanele babale baphimisele ngalesikhatsi baphosa. Phindza lomsebenti baze bonkhe bafundzi batfolle littuba.</p>	Lilanga 1	Emaculo nemlolotelo yetinombolo

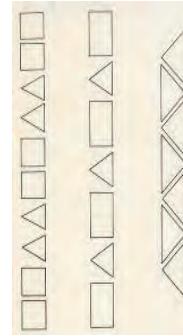
Liviki 39	Sikhatsi lesiphakanyisiwe sekufundzisa: Umsebenti munye welikasi loheliwe loholwa nguThishela (sikhatsi sesifundo) emaminiti ± 30 ngelilanga(lmisebenti yetibalo ± ngeliviki)	Emanotsi lacacisako	Tinsita letiphakanyisiwe	Budze besikhatsi lesilinganisive
Sihoko	<p>1.1 Bala tintfo</p> <p>Lamabili (2-D) nobe titfombe.</p> <p>Hlukanisa bafundzi ngemacembu lamancane:</p> <ul style="list-style-type: none"> - Thishela uniketa bafundzi emaphazili etinombolo. - Bafundzi batfola babuye baphenye tonkhe tindela. - Bafundzi bangaphosa lidayizi kute batfole kutsi nguyiphi iphaszili 	<p>Lilanga 1</p>		

Liviki 39	Sikhatsi lesiphakanyisiwe sekufundzisa: Umsebentu munye welikiasi loholiwe loholiwe nguThishela (sikhatsi sesifundvo) emariniti ± 30 ngelilanga(lmisebenti yetihalo ± ngeliviki)		
Sinhoko	Emanotsi lacacisako	Tinsita letiphakanyisiwe	Budze besikhatsi lesilinganisiwe
1.13 Kuhlanganisa nekususa	<ul style="list-style-type: none"> Gcizelela kuhlanganisa nekususa lokunetimphevdulo letifika eli- 10 Temlomo: Bala tintfo letisetjentiswa malanga onkheonkhe ufile eli -10. Bala uye phambili nasemuva ufile eli -10. Gcizelela kubala ngakibili usebentisa imiolotelo yetinombolo Gcizelela Iwati Iwa “lokunyenti nalokumbalwa” Shaya tandla emahlandla lamanentyiMANI Shaya tandla emahlandla lambalwa. Thishela ushaya tandla emahlandla la -10 Buta kutsi ngukuphi kushaya tandla lokube kunyenti/ mbalwa. <p>Umyakato</p> <ul style="list-style-type: none"> - Thishela ubita bafundzi labasihlanu kutsi bete phambili, uyachubeka ungeta ngamunye umfundzi baze bafike eli- 10 - Bafundzi babala baphimisele. <p>5 na 1 → 6. (Tsani: Sihlanu nakunye kukunkika stiftupha)</p> <p>6 na 1 → 7. 7 na 1 → 8. 8 na 1 → 9. 9 na 1 → 10.</p> <p>- Thishela ubuyisela bafundzi emuva, bafundzi babala baye emuva.</p> <p>10 susa 1 → 9 9 susa 1 → 8 10 susa 2 → 8</p>	<p>Lilanga 1</p> <p>Emaculo nemiolotelo yetinombolo</p>	<p>Lokuphatsekako usebentissa tintfo letingemadayimenshini lamatsatfu (3-D) Bafundzi bahlala ekhaphethini. Umfundzi ngamunye unetibali leti -10 nesimbonyo seplasitiki. Bafundzi balandzela ticondziso:</p> <ul style="list-style-type: none"> - Paka tibali leti -4 esimbonyweni sakhlo. Ngeta futsi leti -4. Tingaki setitonkhe 6 na 4 → 10 - Paka tibali letili -10. Susa letisi -5. Kusele letingaki? njil

Liviki 39	Sikhatsi lesiphakanyisiwe sekufundzisa: Umsebenti munye welikiasi loheliwe loholwa nguThishela (sikhatsi sesifundvo) emarinithi ± 30 ngelilanga(lmisebenti yetibalo ± ngeliviki)		
Sinhoko	Emanotsi lacacisako	Tinsita letiphakanyisiwe	Budze besikhatsi lesilinganisive
1.13 Kuhlanganisa nekususa	<p>Lokubonakalako ungeke ukuphatse usebentisa bobunjwa labangemada-yimenshini lamabili (2-D) nobe tifombe.</p> <ul style="list-style-type: none"> - Bala tintfo leti -8 letisekhadini letifombe. Nangabe uhanganisa likhadji lelinetifombe leti -2, utawuba natingaki nyalo? 8 naku- 2 → 10. Paka linani lelilinganako letibali - Bala tintfo letili -10 letisekhadini letifombe. Nangabe umbonya tintfo leti -3, ubona letingaki? 10 susa 3 → 7. Paka linani lelilinganako letibali. 	<p>Emafeshikhadi etifombe lataka ekhatsi tinombolo 1 kuya kuli- 10 Tibali</p>	Lilanga 1
1.4 Chaza, ucatsanise ubuye uhlele tinombolo	<ul style="list-style-type: none"> • Catsanisa kutsi ngutiphi tintfo letimbili kuletigcogciwe leti: <ul style="list-style-type: none"> - nyenti kuna- - mbalwa kuna- - letilingana na- 	<p>Temlomo: Bala tintfo letisetjentiswa malanga onkheonkhe ufike kuli -10. Bala uye phambili nasemuva ufike eli -10 usebentisa imiolotelo yetinombolo nemaculo.</p> <p>Gcizelela kubala ngakubili usebentisa imiolotelo yetinombolo</p> <p>Gcizelela lwati lwa “lokunyenti nalokumbalwa”</p> <p>Shaya tandla emahlandla lamanyentiMANI Shaya tandla emahlandla lambalwa. Thishela ushaya tandla emahlandla lali -10 Buta kutsi ngukuphi kushaya tandla lokube kunyenti/ mbalwa.</p> <p>Umnyakato</p> <ul style="list-style-type: none"> - Thishela ubeka bafundzi laba -6 ndzawonye kuhulahhubhu nebafundzi laba -4 kulenyi ihhuahhubhu - Thishela uyabuta: Kunebafundzi labanyenti, labambalwa nobe labalinani lelilinganako kuhulahhubhu ngayinye? - Bafundzi batfolo kutsi nguyiphi ihhuahhubhu lenefundzi laba “nyenti kuna” laba “mbalwa kuna” nalabalinani “lelfanako” 	Lilanga 1 2 Emahulahhubhu

Liviki 39	Sikhatsi lesiphakanyisiwe sekufundzisa: Umsebentu munye welikiasi loheliwe loholwa nguThishela (sikhatsi sesifundvo) emariniti ± 30 ngelilanga(lmisebenti yetihalo ± ngeliviki)	Emanotsi lacacisako	Tinsita letiphakanyisiwe	Budze besikhatsi lesilinganisive
Sinhoko				Lilanga 1
1.4 Chaza, ucatsanise ubuye uhlele tinombolo	Lokuphatsekako usebentisa tintto letingemadymenshini lamatsatfu (3-D) <ul style="list-style-type: none"> - Beko tibali leti -10, leti -6 naleti -4 etafuleni. - Combela linani letibali/ lemabhuoloki lasetafuleni ngaphandie kwekubala - Thishela uyabuta: Ngabe kunetibali letengca ku -7? "Ngabe ticishe tilingane, tnyentii, timbalwa kuna-, tenele, atikeneli?" - Thishela utsi: "Hiola timphendulo takho ngekubala tibali" Kusondzele kangana ni kucombela kwakho? Lokubonakalako longeke ukuphatse usebentissa bobunjwa labangemada-yimenshini lamabili (2-D) nobe titfombe. <ul style="list-style-type: none"> - Thishela ukhombisa emakhadi lamabili lanemacashati netinombolo letehlukene kuwo. - Bafundzi abacatsanise emakhadi lanetitfombe nemacashati ubuye batfola lwati lwa "lokunyentii kuna-""lokumbalwa kuna-""lokulingana na-" 	Tibali		
			Emakhadi lamabili lanelinani lelehukile temacashati netitfombe kuwo.	

Liviki 39	Sikhatsi lesiphakanyisiwe sekufundzisa: Umsebenti munye welikiasi loholiwe loholiwe nguThishela (sikhatsi sesifundvo) emariniti ± 30 ngelilanga(lmisebenti yetibalo ± ngeliviki)		
Sinhoko	<p>3.1 Kubekaka, kutetayeta nekubukaka</p> <p>Kubekaka, kutetayeta nekubukaka</p> <p>Gcizela sencele nese кудла</p> <p>Umnyakato</p> <ul style="list-style-type: none"> - Thishela ubeka tinyatselo tesencelle netesekudla yonkhe indzawo eklasini.  <ul style="list-style-type: none"> - Bafundzi bakhassa ngesandla lidvolo lelifanako, banyakakate kanyekanye. - Bahamba etukwato, sibonelo: Nangabe baya ebhavini lekugeza.  <p>Thishela ubopha intsanjana lebovu esandleni kusekudla semfundzi ngamunye.</p> <p>Thishela unika ticondziso:</p> <ul style="list-style-type: none"> - Phakamisa lunyawo lwakho lwasencelle. - Beka lunyawo lwakho lwasekudla esitulweni. - Tsintsa lidvolo lakho lesencelle ngengoza yakhoyesekudla. - Dvonsa indlebe yakhoyesencelle ngesandia sakho sese кудла. - Beka sandia sakho sekudla ehломbe lakho lesencelle nesandia sakho sesencelle ehломbe lakho lesekudla kanyekanye. - Tigone (uphambanise tandia emgceni losemkhatsini-esifubeni) 	<p>Tinsita letiphakanyisiwe</p> <p>Tinyatselo teliphepha letimakiwe “sencelle” ne “sekudla”</p> <p>Budze besikhatsi lesilinganisive</p> <p>Lilanga 1</p>	

Liviki 39	Sikhatsi lesiphakanyisiwe sekufundzisa: Umsebentzi munye welikasi loholiwe loholiwe nguThishela (sikhatsi sesifundvo) emaminiti ± 30 ngelilanga(lmisebenti yetihalo ± ngeliviki)		
Sinhoko	Emanotsi lacacisako	Tinsita letipifikanyisiwe Budze besikhatsi lesilinganisiwe	Lilanga 1
3.1	<p>Lokuphatsekako usebentisa tintfo letingemadayimenshini lamatsaffu (3-D)</p> <p>Kubekeka, kutetayeta nekubukeka</p> <ul style="list-style-type: none"> ○ Thishela ubeka tikotela leti -7 etafuleni. ○ Bafundzi abasho kutsi nguyiphi inombolo lengasencle senombolo 3, nguyiphi inombolo lengesekudla senombolo 6, nguyiphi inombolo lesemkhatsini waku-3 nesi-6 ○ Nguyiphi inombolo lesekucaleni, nguyiphi inombolo lesekugcineni.  <p>- Thishela ubeka imidoli lenetembatto letibonakala kahle nobe timoto letinimbala lebonakala kahle etafuleni.</p> <p>- Ubuta imibuto lefana nekutsi:</p> <ul style="list-style-type: none"> ○ Ngumuphi umdoli/ imoto lesesencle? ○ Ngumuphi umdoli/ imoto lesesencle? Nguyiphi imoto lesekucaleni/ lesekugcineni? <p>Lokubonakalako ungeke ukuphatse usebentisa bobunjwa labangemada-yimenshini lamabili (2-D) nobe tifombe.</p> <p>- Ngesikhatsi seBuciko bekubona bafundzi benta emaphrinti epende basebentisa tanda tabo tesencle netesekudla.</p> <p>- Juba ubuye unamatsisele ephepheri ukhombise lunyawo lwestencele nelesekudla.</p>	<p>Tikotela letinetinombolo</p> <p>Imidoli lemitsatfu nobe timoto</p> <p>Emakhadi abobunjwa nemaphethini</p>	
2.1	<p>Takhele emaphethini</p> <p>Lokuphatsekako usebentisa tintfo letingemadayimenshini lamatsaffu (3-D)</p> <p>Emaphethini e-Jomethri</p> <ul style="list-style-type: none"> - Bafundzi bacala kutsatsela emaphethini lanikive. - Bafundzi baubuye batakhela emaphethini babuye bawachaze. 	<p>Lilanga 1</p> <p>Emakhadi abobunjwa nemaphethini</p>	Lilanga 1

Liviki 39	Sikhatsi lesiphakanyisiwe sekufundzisa: Umsebenti munye welikiasi loholiwe loholiwe (sikhatsi sesifundvo) emaminiti ± 30 ngelilanga(lmisebenti yetibalo ± ngeliviki)		
Sinhoko	Emanotsi lacacisako	Tinsita letiphakanyisiwe	Budze besikhatsi lesilinganisiwe
2.1 Emaphethini e-Jomethri	<p>Umsebenti webhodi yemaphekisi: Umfundzi akacale asebentise sandla sese кудла abuye asebentise sesencele abuye asebentise totimbili tandia ebhodini yemaphekisi.</p> <ul style="list-style-type: none"> - Thishela utjela bafundzi kutsi balibeke kuphi liphekisi sib. o Emgceni longenha o Emgceni longentasi o Ecaleni lesencele o Ecaleni lesekudla o Emkhatsini <p>Bafundzi:</p> <ul style="list-style-type: none"> - Abakhe bobunjwa ebhodini yemaphekisi basebentisa emaphekisi lanembala - Thishela ucamba iphethini lelula asebentisa emaphekisi ebhodini yemaphekisi yakhe ubuye bafundzi batsatsela iphethini ebhodini yemaphekisi yakhe. 	<p>Emaphegibhodi nemaphekisi. Emaphethini lebangakopa kuwo batfundzi</p> <p>Lilanga 1</p>	

Liviki 40	Sebentisa liviki le -40 kunaka butsakatsaka belwati lwetibalo/ kuffola tihibe tekufundza.		
Umkhakha walokucuketfwe	Sihloko	Indela yekuhola	
Tinombolo netimpawu tekubala	1.1 Bala tintfo	Ucombela abuye abale ngenhloko kufika ku -10 (emaculo etinombolo nemiolotelo lokufaka ekhatsi kuitulfukisa lwati lwetinombolo) Ubala aye emuva raphambili (0-10) Ubala ngakubili (Emaculo nemiolotelo yetinombolo)	Uvisisa lokuphatselene "nalokunyenti" "nalokumbalwa" (kushaya tandla) Uvisisa kutsi ngukuphi kushaywa tandla lokube kurnyenti/ mbalawa Ubona tinombolo tetifombe nemakhadi emacashati kusukela ku-0 kuye eli-10 Wati timphawu tetinombolo 8, 9 neli-10 kanye neli-0 Ubona emagama etinombolo 8,9, 10 kanye neli-0 Ucedzela kulandzelana kwetinombolo lokulula kusukela ku-1 kuye eli-10
	1.4 Chaza, catsanisa ubuye uhlile tinombolo	Ubona abuye atfole tinombolo etingcikitsi letetayelekile sib. bidzala ngemnyaka, inejista. Utfola umehluko emkhatsini walokunyenti, lokumbalwa, lokulinganako, lokunyenti kakhulu abuye ente luha lwetinombolo kufike eli-10. Uvisisa tinombolo te-odinali- yekucala, yesibili, yesitsattu, yesine, yesihlanu neyesittupha.	
	1.6 Emasu ekubala tinkinga tetibalo	Usebentisa tinsita letiphasekako Uchaza lakucabangako ngemagama nangemidwebo nobe ngetintfo letiphatsekako	Ucatulula tinkinga tekuhlanganisa nekhusua ngemlomo letifaka ekhatsi tinombolo letifika eli-10.
	1.7/1.13		
	Kuhlanganisa nekukipha		
Emaphethini nemafangishini	2.1 Emaphethini e-Jomethri	Utsatsela, achubekisele embili abuye atakhele emaphethini lalalelwako. Uvisisa umdialo: i-Hop scotch.	
Sikhala nabunjwa(ljomethri)	3.1 Kubekeka, kutetayeta nekubukeka	Kuba nelwati lwalokusedvute ne, emkhatsini, kusencelle nakusekudla. Kuvisia lwati: phambili, nasemuva, etulu naphansi, kusencelle neseckudla.	Uyakwati kwacha lokungenani tinctetu temaphazili langemashumi lamabili name Ubona abute atfole indilinga, calantsatfu, sikwele nacelandze.
	3.2 Tintfo letingemadayimenshini lamatsattu (3-D) kanye		
	3.3 Bobunjwa bemadayimenshini lamabili (2-D)		
	3.4	Ubona umugca lohluukanisa tintfo emkhatsini ngalokufanako nangalokulinganako	
Silinganiso	Umuqca lohluukanisa umkhatsini ngalokulinganako nangalokufanako		
Kusebenta ngedatha	4.2 Budze	Uvisisa kutsi tintfo ikalwa ngekusebentiisa ithephu yekukala.	Uyakwati kuggogca, kuhlunga, kudvweba, kufundza nekumela (kuhlatiya) tintfo letinetimphawu letifanako.
	5.1 Kuggogca nekuhlunga		
	5.2		
	Kwefulta tintfo letigcogiwe letihlungiwe		
	5.3		
	Coca ubuye ubike ngetintfo letihlungiwe		

SIGABA 4: NEKUHLOLA

4.1 SINGENISO

Kuhlola kuyinchubo lechubekako nalehleliwe yekubona, kubutsela ndzawonye nekuhumusha Iwati ngemphumelelo yebafundzi, ngekusebentisa tinhlobo letehlukene tekuhlola. Kufaka ekhatsi tinyatselo letine:

- kwenta ubuye ugcogce bufakazi bemphumelelo;
- kuhlola lobufakazi;
- kurekhoda lokutfolakele;
- kusebentisa lolwati kuvisisa nekusita kutfutfuka kwemfundzi kute kwentiwe ncono inchubo yekufundza neku-fundzisa.

Kuhlola kufanele cube ngulokuhlelekile (Kuhlola kwekufundza) kubuye cube ngulokungahleleki (Kuhlola kwalokufundziwe). Kuto totimbili letindlela tekuhlola bafundzi kufanele banikwe umbiko ngaso sonkhe sikhatsi kute bakhuphule Iwati lwabo lwekufundza.

Esigabeni Sabokhewane, emasu lasemcoka eluhlolo **Ioluhlelekile nalolungakahleleki** kubuka kwathishela, kucoca, kukhombisa ngekwenta nekubhala. Luhlolo IweliBanga R kumele lugcile kakhulukati kutemlomo nekwenta.

4.2. LUHLOLO LOLUNGAKAHLELEKI NOBE LUHLOLO LWAMALANGA ONKHE

Kuhlola kwekufundza kunenhoso yekuchubeka kugcogce Iwati ngemphumelelo yebafundzi lengasetjentiswa kwenta ncono kufundza kwabo. Loku kungabuye kubitwe ngekutsi luhlolo lolungakahleleki. Kukuhlola inchubekelembili yebafundzi malanga onkhe. Loku kwenteka ngekubuka kwathishela, kucoca, kukhombisa ngekwenta, kusebentisana eklasini ngalokungakahleleki njll. Kufanela kungabukwa njengalokwehlukile kunemisebenti yekufundza leyenteka eklasini. Kuhlola lokungakahleleki kusita thishela kutsi ahlole inchubekelembili yebafundzi abuye utsatsa tincumo tekufundzisa temalanga onkhe. Luhlolo lolungakahleleki lusetjentiswa ku:

- nika timphendvulo kubafundzi
- nika Iwati nakuhlelelwu kufundzisa.

Ngaletinye tikhatsi thishela angagcina tinhla tekutikhumbuta nobe luhlelo lwekubuka njengendlela yekurekhoda inchubekelembili yebafundzi. Ngaletinye tikhatsi umfundzi nobe thishela angamaka umsebenti. Nanobe kunjalo, luhlolo lolungakahleleki alubi yincenyemarekhodi emfundzi lahlelekile. Imiphumela yemisebentiluhlolo lengakahleleki yemalanga onkhe ayibalwa nangabe umfundzi endluliselwa ebangeni lelilandzelako nobe aniketwa sitifiketi.

4.3 LUHLOLO LOKUHLELEKILE

Yonkhe imisebenti yekuhlolola leyakha luhlelo iwekuhlola loluhlelekile lwemnyaka itsatfwa njengeLuhlolo Loluhlelekile. Imisebenti yekuhlolola lehlelekile iyamakwa ibuye irekhodwe ngalokuhlelekile nguthishela ngetinhoso tekundlulisela umfundzi ebangeni lelilandzelako nekunika sitifiketi. Kuhlola lokuhlelekile kunika bothishela indlela lemisiwe yekuhlolola kutsi bafundzi bachubeka kahle yini ebangeni nobe esifundvweni lesitsite.

Thishela angabuka lokungenani bafundzi labalishumi ngesikhatsi ngaloko– ke imisebenti luhlolo lehlelekile ingenteka ngalesikhatsi kugcilembe emacenjini lamancane futsi kutawutsatsa emalanga lambalwa kuhlola liklasi lonkhe. Tonkhe tintfo netinsita letivame kusetjentiswa bafundzi kufanele tibe khona njengalokwetayelekile (tintfo tekubala, emashadi etinombolo njil)

Letinhlobo tekuhlolola letisetjentiswako kufanele tihambelane nemnyaka kanye nelizinga lekutfutfuka lelifanele umfundzi. Luhlolo loluhlelekile kufanele lufake emazinga lehlukene ekucabanga kwengcondvo netintfo lebakbona kutenta bafundzi. Luhlakasimo Iwalemisebenti lufanele luhlanganise lokucuketfwe kwaleso sifundvo ngetindlela letehlukene.

Tinhlobo letinyenti teluhlolo (kubuka, temlomo, kwenta nekubhala) kufanele tisetjentiswe kunika umfundzi ngamunye litfuba lekukhombisa langakwenta nalangeke akhone kukwenta.

Loku kwenteka ngobe labanye bafundzi bayakwati kukhombisa kalula lebakwatiko kuletinye tinhlobo tekuhlolola. Sibonelo:

- Labanye bafundzi labahlangabetana nebulukhuni ekufundzeni bafike bakhombise kuhlakanipha etibalweni.
- Labanye bafundzi ababi sezingeni lephumelelo lelilindzelekile elulwimini iwekufundza nekufundzisa.

Imisebentiluhlolo yeTibalo kufanele ifaka imisebenti lengakagcili elulwimini nome ekufundzeni kute ivete kahle loko lebangakhona kukwenta bafundzi.

Nanobe kunjalo, kufanele kube nekucaphelisa kutsi yini lehlowlako. Lolunye Iwati nemakhono ahlolwa kahle ngetindlela letitsite tekuhlolola. Tinhlobo letehlukene teluhlolo tilungele emakhono nelwati loludzingekako kutihloko temacembu laneminyaka leyehlukene. Kulusito kusebentisa luhla iwekusita nawubuka kuhlola bafundzi Nangabe bakala emabangeni lasekucaleni. Emarubhrikhi angasetjentiswa kuhlola emakhono ekucatulula tinkinga tetibalo.

4.4 LUHLELO LWEKUHLOLA LOKUHLELEKILE

Imisebentiluhlolo lehlelekile yeTibalo ifaka ekhatsi tihloko teTibalo letengca kusinye sihloko. Imisebentiluhlolo yemnyaka wonkhe kufanele ibe nayo yonkhe imikhakha yalokucuketfwe netihloko kodywa akusiko konkhe lokucuketfwe kukharikhulamu lekufanele kuhlolwe ngalokuhlelekile nobe kubikwe ngako. Tinombolo, timphawu tekubala nebudlelwane takha 60% weTibalo ebangeni R. Loku kusho kutsi 60% wemsebentiluhlolo lohlelekile esigabeni ngasinye kufanele ugcile etinombolweni, timphawu tekubala nebudlelwane.

TIBALO LIBANGA R

Umsebentiluhlolo ngamunye awukafaneli kubonwa njengesehlakalo lesenteka kanye nome sivivinyo. Leminye imigomo ingahlolwa ngesikhatsi sinye kodvwa leminye imigomo ingahlolwa ngetikhatsi letehlukene. Sib. Nangabe kuhlolwa likhono lebafundzi lekubala bece, likhono labo lekwenta loku lokulandzelako lingahlolwa nalo esehlakalweni sinye nobe emsebentini munye:

- kucedzela kubala lokulandzelanako
- kufundza nekubhala tinombolo
- kubala

Nanobe kunjalo, Nangabe umsebentiluhlolo ucuketse kokubili: kusombulula tinkinga tetibalo tekugcogcela ndzawonye nekwabelana nekuhlola likhono lebafundzi kukala umtsamo; kuvamile kutsi letincenyte Tibalo tingahlolwa ngetikhatsi letehlukene nangetindlela letehlukene.

4.5 KUREKHODA NEKUBIKA

Kurekhoda inchubo lapho thishela arekhoda khona lizinga lekuphumelela kwemfundzi emsebentini lotsite. kukhombisa kututfuka kwelwati lwemfundzi ngemphumelelo njengobe kuvetwe esitativendeni saVelonkhe neNchubomgomoyekuhlola. Kurekhoda imphumelelo yemfundzi, kumele kunike bufakazi bekutsi umfundzi angakhona kututfuka aye ebangeni lelilandzelako. Emarekhodi emphumelelo yemfundzi angabuye asetjentiswe kucinisekisa inchubekelembili leyenteka kuthishela nemfundzi ngalesikhatsi kufundzisa nekufundza kuchubeka.

Kubika kuyinchubo yekwatisa umfundzi, umtali, sikolo nebantu labanenshisekelo kutefundvo ngemphumelelo yemfundzi. Imphumelelo yemfundzi ingabikwa ngetindlela letehlukene. Loku kufaka ekhatsi emakhadimbiko, imihlangano yebatali, tinsuku tekuvakashela esikolweni, kucocisana kwemtali nathishela, kushaya lucingo, tincwadzi, umbhalo wekwatisa welikiasi newesikolo njll. Bothishela kuwo onkhe emabanga babika ngemaphesenti lahabisana nesifundvo. Emazinga lahlukene emphumelelo nemaphesenti awo akhonjiswa kuleLithebulalelingentasi

Emakhodi nemaphesenti ekurekhoda nekubika

Emazinga	Tinchazelo temakhono	Emamaki ngemaphesenti
7	Imphumelelo ngemalengiso	80-100
6	Imphumelelo ngelicophelo lelisetulu	70-79
5	Imphumelelo ngalokuncomekako	60-69
4	Imphumelelo ngalokwenetisako	50-59
3	Imphumelelo ngalokulingene	40-49
2	Imphumelelo ngalokuyinceny	30-39
1	Akunamphumelelo	0-29

Thishela utawurekhoda emamaki lekunguwonawona ahambisane nemsebenti lowentiwe, asebentise liphepha lekurekhoda (kucopha), abuye abike ngemaphesenti ahambisane nesifundvo ekhadinimbiko lemfundzi.

4.6. LOKUNYE JIKELELE

Lomculu ufanele ufundvwe ngekuhlanganisa ne:

4.6.1 National policy pertaining to the programme and promotion requirements of national Curriculum statement Grades R-12; and

4.6.2 The policy document, National Protocol for Assessment Grades R-12

4.7 SIBONELO SELUHLA LWEKUBUKA LWELUHLOLO LOLUHLELEKILE LWELIBANGA R

Sibonelo seluhla lwekuhlola seliBanga R sinikiwe ngentasi. Sizatfu saso kusita bothishela kutsi batilungiselele babuye bahlole iuhlolo lolulungiselele ngendlela lechubekako.

LIBANGA R				
Luhla Iwekubuka iuhlolo IweThemu yeku -1				
Umkhakha walokuketfwe	Lokukuketfwe	Umgomo	✓ nobe x	Kuphawula
Tinombolo, timphawu tekubala nebuldelwane.	Kubala	Ucombela kubala ngenhloko afike kusi-5 (Emaculo etinombolo letifaka kututufukiswa lwati lwetinombolo)		
	Kubona tinombolo	Ubona tinombolo engcikitsini leyetayelekile - sib. iminyaka, irejista		
		Uvisisa tinombolo (sib. Ngetikhatsi tekuya endlini lencane)		
	Kwati tinombolo	Uvisisa kuchumana lomunye nalomunye (lishadi lebasiti ngesikhatsi selikhefu)		
	Tfola ubuye uchaze tinombolo letiphelele	Utfola inombolo yetitfombe nemakhadi emacashati lafaka ekhatsi inombolo 1		
		Wati luphawu lwenombolo 1		
		Ubona ligama lenombolo 1		
Emaphethini nemafangishini	Tsatsela, chubekisa ubuye wente emaphethini	Usebentisa tinsita letiphatkakalo uchaza kucabanga kwakhe ngemagama nangemidvwebo nobe tintfo letiphatkakalo		
		Utfola emaphethini kutendzawo		
Sikhala nabobunjwa (ljomethri)	Bona, tfola ubuye unike emagama etintfo lettingemadayimenshini lamatsatfu (3-D)	Ubona, atfole abuye abite emagama emabhola		
		Ubona, atfole abuye abite emagama emabhokisi		
	Bona, tfola ubuye unike emagama abobunjwa labangemada-yimenshini lamabili (2-D) nobe titfombe	Ubona, atfole abuye asho ligama leluphawu lwakho, luphawu lwantsanga kanye neligama lelikiasi		
		Wakha lokungenani tincetu tephazili letisi- 6		
		Ukhombisa likhono lekuhlukanisa emkhatsini wetintfo "kulingaphambili nelinguemuva"		
	Bobunjwa be-Jomethri	Utfola abuye abone indilinga		
		Utfola abuye abone calantsatfu		
		Utfola abuye abone sikwele		

TIBALO LIBANGA R

Umkhakha walokucuketfwe	Lokucuketfwe	Umgomo	✓ nobe x	Kuphawula
Sikhala nabobunjwa (Ijomethri)	Chaza, hlunga ubuye ucatsanise tintfo letingemadaiyimenshini lamatsatfu (3-D) ngaloku lokulandzelako:	Ucatsanisa kutsi ngukuphi kwaletintfo letimbili telugcogco letinikiwe talokukhudlwana nalokumbalwa, lokukhulu kakhulu, lokuncane kakhulu. Uhlunga tintfo nge: Sayizi-lokuncane nalokukhulu, Umbala -imibala yemvelo (lokubovu, lokumtfubi, lokuluhlata kwesibhakabhaka) Bunjwa -indilinga, calantsatfu nesikwele Tintfo letigicikako Tintfo letishelakalo		
	Bona umugca lohlukanisa emkhatsini ngalokulinganako nangalokufananako:	Ubona umugca lohlukanisa emkhatsini ngalokulinganako nangalokufananako kuye		
	Budlelwane bendzawo: Kubekeka kwetintfo letimbili nobe letingetulu ngalokuhambisana nemfundzi	Wati ngembikwe/ngemuva, Wati ngetulu kwe, ngetulu, ngephasi, Wati ekhatsi/ngekhatsi, ngaphandle, Wati etulu, phasi		
	Tinkhomba	Uvisisa Iwati: phambili, emuva, phambili nasemuva		
Silinganiso	Sikhatsi	Usebentisa emagama lafana nalawa, imini, busuku, kukhanya nebumnyama, ekuseni, ntsambama, ebusuku kute achaze sikhatsi selusuku Uhlela tintfo letihlala tenteka emphilweni yakhe yemalanga onkhe (luhlelo lwemalanga onkhe) Ukhombisa Iwati ngemalanga eliviki, tikhatsi temnyaka nesimo selitulu Kwati lusuku Iwakho lwekutalwa		
	Budze	Uhlukanisa emkhatsini waloku, lokudze, kudzana, kudze kakhulu, kufisha, kufishanyana, kufisha kakhulu		
Kusebentisa idatha	Gcogca, hlunga, dvweba, fundza nekukhombisa idatha	Ukhona kugcogca, kuhlunga, kudvweba, kufundza nekuhlatiya tintfo ngekufanana/ kubukeka kwato.		

SILINGANISO SEKUGCINA:

LIBANGA R

Luhla Iwekubuka luhlolo IweThemu ye -2

Umkhakha walokukuketfwe	Lokukuketfwe	Umgomo	✓ nobe x	Kuphawula
Tinombolo, timphawu tekubala nebullelwane..	Kubala	Ucombela kubala ngenhloko afike ku-7 (Emaculo etinombolo letifaka kututufukiswa lwati lwetinombolo)		
		Ubala uye emuva naphambili (1-4)		
		Uvisisa lamagama "kunyenti nakuncane" (ushaya tandla)		
	Kubona tinombolo	Ubona tinombolo engcikitsini leyetayelekile-sib. Inombolo yendlu, likheli, irejista		
	Bona nekuchaza tinombolo letiphelele	Ubona tinombolo tetifombe nemakhadi emacashati		
		Wati letinombolo 1, 2, 3,4		
		Ubona emagama etinombolo kubili, kutsatfu na-kune		
	Lwati lwetinombolo	Uvisisa kuchumana kulomunye nalomunye (lishadi lemsiti ngesikhatsi sekudla)		
		Uhlukanisa emkhatsini waloku, kunyenti, kuncane, nakulingana kufike ku -4		
		Ubona umehluko emalini yebuhhehlui yaseNingizimu Afrika		
	Kucatulula tinkinga tetibalo	Usebentisa tinsita letiphatsekako kuchaza kucabanga kwakhe ngemagama nangemidvwebo nobe tintfo letiphatsekako		
		Ucatulula tinkinga tetibalo tekuhlanganisa nekususa ngemlomo afike ku-4		
Emaphethini nemafangishini	Tsatsela, chubela embili ubuye utakhele emaphethini akho	Utsatsela, achubekise, abuye atakhele iphethini yakhe (tintfo, bobunjwa nemali yebuhhehlui)		

TIBALO LIBANGA R

Umkhakha walokucuketfwe	Lokucuketfwe	Umgomo	✓ nobe x	Kuphawula
Sikhala nabobunjwa (Ijomethri)	Bona ubuye usho bobunjwa bemadayimenshini lamabili (2-D)	Wakha lokungenani tincetu temaphazili leti-12.		
		Ukhombisa lwati lwekuhlukanisa tintfo "letingembili naletingemuva" (phindza uhlole)		
	Bobunjwa be-Jomethri	Utfola, abone abuye anike emagama acalantsatfu		
		Uvisisa kwakheka kwacalantsatfu (kwakheka kwabunjwa)		
	Chaza, hlunga ubuye ucatsanise tintfo letingemadaiyimenshini lamatsatfu (3-D) mayelana naloku lokulandzelako:	Ucatsanisa kutsi ngukuphi kwaletintfo letimbili letigcogciwe letiniketiwe letindze, letimfisha		
		Uhlunga tintfo ngesayizi -lokudze nalokufisha		
		Imibala - (lokubovu, lokumtfubi, lokuluhlata kjesibhakabhaka nalokuluhlata)		
		Bobunjwa		
	Kwakha tintfo letingemadaiyimenshini lamatsatfu (3-D) ngekusebentisa tintfo letiphatsekako.	Kutetayeta ngemabhaluki ekwakha		
	Bona umugca lohlukanisa emkhatsini ngalokulinganako nangalokufananako	Ubona umugca lohlukanisa emkhatsini ngalokulinganako nangalokufananako kuye nasemvelweni laphila kuyo		
		Ukwati kuwela umugca losemkhatsini lohlukanisa ngalokulinganako nangalokufananako		
	Budlelwane bendzawo	Uvisisa kubekaka kwetintfo letimbili nobe letinyenti nakaticatsanisa nemfundzi - Etulu, ngaphasi		
Silinganiso	Sikhatsi	Uvisisa emalanga eliviki, tikhatsi temnyaka nelishadi lesimo selitulu (emaculo nemilolotelo-phindza ukuhlole)		
		Wati ngelusuku lwakhe lwekulatalwa (phindza ukuhlole)		
	Budze	Uhlukanisa emkhatsini walokudze kakhulu, lokufisha kakhulu, lokudze, lokufisha (lishadi lelimayelana nebudze)		
Kusebentisa idatha	Gcogca, hlunga, dvweba, fundza ubuye ukhombise idatha	Ukhona kugcogca, kuhlunga, kudvweba, kufundza nekuhlatiya tintfo ngekufanana/kubukeka kwato.		

SILINGANISO SEKUGCINA:

LIBANGA R				
Luhla Iwekubuka Iuhlolo IweThemu ye -3				
Umkhakha walokukuketfwe	Lokucuketfwe	Umgomo	✓ nobe x	Kuphawula
Tinombolo, timphawu tekubala nebulwane.	Kubala	Ucombela kubala ngenhloko afike ku-7 (Emaculo etinombolo letifaka kututfukiswa Iwati Iwetinombolo)		
		Ubala aye emuva naphambili (1-7)		
		Wati kutsi ngukuphi kushaywa kwetandla lokunyenti/lokuncane		
	Kubona tinombolo	Ubona tinombolo engcikitsini leyetayelekile-sib. Inombolo yendlu, likheli, irejista (phindza ukuhlole)		
	Kubona nekuchaza tinombolo letiphelele	Utfola tinombolo tetitfombe nemakhadi emacashati ufike ku 7		
		Wati letinombolo 5, 6, 7		
		Ubona emagama etinombolo, sihlanu, sitfupha, inkhotsa		
	Lwati Iwetinombolo	Uhlukanisa emkhatsini wa-lokunyenti, lokuncane, kulingana ufike ku-7		
		Ubona umbala kanye netilwane letehlukene emalini yemaphepha yaseNingizimu Afrika		
	Kucatulula tinkinga tetibalo	Usebentisa tinsita letiphatsekako kuchaza kucabanga kwakho ngemagama nangemidvwebo nobe tintfo letiphatsekako		
		Ucatulula tinkinga tetibalo tekuhlanganisa nekususa ngemlomo ufike kusi-7		
Emaphethini nemafangishini	Utsatsela, uchubela embili abuye atakhele emaphethini akhe	Utsatsela, uchubekise, bese utakhela iphethini yakhe asebentisa titfombe		
Sikhala nabunjwa (Ijomethri)	Bona abuye asho bobunjwa labangemadayimenshini lamabili (2-D)	Wakha lokungenani tincetu tephazili leti-18		
	Bobunjwa be-Jomethri	Utfola, abone abuye asho calantsatfu		
		Uvisisa kwakheka kwabobunjwa lokufundvwe ngabo kute kube ngulesikhatsi (kwakheka kwabobunjwa)		
	Kwakha tintfo lettingemadayimenshini lamatsatfu (3-D) ngekusebentisa tintfo letiphatsekako.	Wakha asukela tukwesibonelo lesakhiwe ioniketwe sona		
		Utsatsela sakhiwo lesisekhadini lephethini nobe sitfombe		
	Budlelwane bendzawo	Wati kubekaka kwetintfo letimbili nobe letinyenti nawucatsanisa lenye nalenye - ngembikwe, ngemuva, ngetulu kwe, etulu, ngaphasi, edvute ne, emkhatsini, sancele nesekudla		
		Usebenta ngeticondziso letisebhodini yemaphekisi		
	Inkhomba	Wati tinkhombandlela letiseshadini lemicibisholo		

TIBALO LIBANGA R

Umkhakha walokucuketfwe	Lokucuketfwe	Umgomo	✓ nobe x	Kuphawula
Silinganiso	Budze	Ucombela ubuye ukale budze betintfo letehlukene		
	Sisindvo	Uvisisa lamagama "kulula, kuyasindza/kumatima; kululanyana, kuyasindza kancane; kulula kakulu, kusindza kakhulu"		
	Umitsamo	Uvisisa inshokutsi yalamagama "akunalutfo,kugcwele, kunyenti kuna, kuncane kuna"		
Kusebentisa idatha	Gcogca, hlunga, dvweba, fundza ubuye ukhombise idatha	Ukwati kugcogca, kuhlunga, kudvweba, kufundza nekumela tintfo ngendlela ngekwetimphawu tato		

SILINGANISO SEKUGCINA:

LIBANGA R				
Luhla Iwekubuka Iuhlolo IweThemu ye -4				
Umkhakha walokucuketfwe	Lokucuketfwe	Umgomo	✓ nobe x	Kuphawula
Tinombolo, timphawu tekubala nebuldelwane.	Kubala	Ucombela kubala ngenhloko urike eli-10 (Emaculo etinombolo letifaka kutfutfukiswa lwaiti lwetinombolo)		
		Ubala uye emuva naphambili (0-10)		
		Ubala ngakubili (emaculo etinombolo nemilolotelo)		
		Uvisisa inshokutsi yaloku, "kunyenti na-kuncane (ngekushaya tandla)		
		Uvisisa kutsi ngukuphi kushaywa kwetandla lokunyenti/lokuncane, lokunyenti kakhulu/lokuncane kakhulu		
	Kubona tinombolo	Ubona tinombolo engcikitsini leyetayelekile-sib. Inombolo yendlu, likheli, irejista		
		Utfola tinombolo tetitfombe nemakhadi emacashati usuke eli- 0-10		
		Wati timphawu tetinombolo 8, 9, 10 and 0 and		
		Ubona emagama etinombolo, siphohlongo, imfica, lishumi nelicandza		
	Lwati tinombolo	Ucedzela kulandzelana kwetinombolo letilula kuletinombolo 1-10		
		Uhlukanisa emkhatsini waloku, kunyenti, kuncane, kulingana, lokunyenti nalokuncane urike e 10		
		Uvisisa tinombolo letetayelekile -kwekucala, kwesibili, kwesitsatfu, kwesine, kwesihlanu nekwestfupha		
	Kucatulula tinkinga tetibalo	Usebentisa tinsita letiphatsekako kuchaza kocabanga kwakhe ngemagama nangemidvwebo nobe tintfo letiphatsekako		
		Ucatulula tinkinga tetibalo tekuhlanganisa nekususa ngemlomo urike eli-10		

Umkhakha walokucuketfwe	Lokucuketfwe	Umgomo	✓ nobe x	Kuphawula
Emaphethini nemafangishini	Kutsatsela, kuchubela embili nekutakhela emaphethini akhe	Utsatsela, achubekise nekutakhela emaphethini etimviwa Uvisisa umdlalo wetshiritsiri		
Sikhala nabobunjwa	Kubona nekubita bobunjwa labangemada-yimenshini lamabili (2-D)	Wakha lokungenanitincetu tephazili leti-24		
	Bobunjwa be-Jomethri	Ubona abuye atfole, indilinga, calantsatfu, sikwele nacalandze		
	Bona umugca lohlukanisa emkhatsini ngalokulinganako nangalokufanako	Ubona umugca lohlukanisa emkhatsini ngalokulinganako nangalokufanako		
	Budlelwane bendzawo	Kwati lamagama, dvute ne, emkhatsini nemkhatsi, sancele nesekudla Kukhona kwenta umsebenti webhodi yemaphekisi losezingeni lelisetulu		
	Inkhombandlela	Uvisisa lamagama lalandzelako: ngemuva nangembili, etulu na-phasi, ngetulu nangaphasi, sancele ne-sekudla		
Silinganiso	Budze	Uvisisa kutsi tintfo tibuye futsi tikalwe ngethephu yekukala		
Kusebentisa idatha	Gcogca, hlunga, dvweba, fundza ubuye ukhombise idatha	Ukhona kugcogca, kuhlunga, kudvweba, kufundza nekuhlatiya tintfo ngedlela yinye yetimpawu tato		

SILINGANISO SEKUGCINA:

