

2021 REVISED CURRICULUM AND ASSESSMENT PLANS

MATHEMATICS GRADE 9

Implementation: January 2021



Presentation Outline

1. Background
2. Principles
3. Underpinning Assumptions
4. Purpose
5. Amendments to the Content Overview for the Phase;
6. Amendments to the Annual Teaching Plan;
7. Amendments School Based Assessment (SBA)
8. Conclusion

1. Background

- **COVID 19 led to losses in teaching and learning time due to:**
 - the lockdown period and **phased reopening** of schools,
 - alternating time tabling models and
 - the related health and safety **protocols**.
- Furthermore, the revision of the school calendar and intermittent closure of many schools negatively **impacted on the implementation of the revised 2020 ATPs** as envisioned.



1. Background cont.

- To mediate the impact and support teachers in managing teaching, assessment and learning within the reduced **time**, the DBE in 2020 issued :
 - Circular S2 of 2020 which released the revised and trimmed ATPs for implementation in 2020
 - **Circular S3 that outlined** the minimum concepts, content and skills that are core per grade and per subject
 - NA Circular 02, 03 and 07 of 2020 that talk to assessment.



2. Principles

- Manage the learning losses and the possible loss of teaching time;
- Learning losses defined as those Learning Outcomes **(content, skills & competencies, values & attitudes)** as stated in the Revised ATPs not achieved during the 2020 school year.
- The 2021 ATPs will be based on the revised ATPs developed in 2020
- **Fundamental and core topics are retained in the Recovery ATPs**



2. Principles, cont.

- Create opportunities through adjusted ATPs to strengthen **pre-knowledge, consolidation, revision, and deeper learning.**
- Entrench assessment for learning as a **Pedagogical Approach** to address the learning losses
- **The 2021 Recovery ATPs maintains the use of current LTSM and resources already available in the system.**
- **The Recovery ATPs are aligned to the:**
 - 2021 School calendar
 - Abridged Section 4 of CAPS with some alterations.
 - Curriculum and assessment principles as prescribed in the CAPS policy for **Mathematics**

3. Assumptions

Assumption 1

All learners will return to school from day 1 of the 2021 academic year and norm-times as stipulated in the CAPS will be adhered to for the entire school year;

Assumption 2

Learning losses due to COVID-19 across grades and subjects will vary from school to school, class to class and even within classes.

3. Assumptions, cont.

Assumption 3

Each Teacher will have a record of learning losses and Departmental Heads and Subject Advisors will monitor progress in learning loss recovery;

Assumption 4

All schools will develop & implement school-based support programmes for all grades/years with particular **focus on all the exit grades/years (3, 6, 9 and 12) throughout the three-year period.**

3. Assumptions, cont.

Assumption 5

All Circulars related to the 2020 ATPs including SBA to be withdrawn and revised to align to the 2021 ATPs.

Assumption 6

Schools have systems in place to manage the possibility of a second wave of the pandemic in 2021

4. Purpose

- To mediate the amendments of the trimmed and re-organised 2021 Annual Teaching Plans (ATP) including School Based Assessment for **Mathematics, Grade 9** for implementation in January 2021 **as stipulated in Circular S11 of 2020.**
- To ensure that **meaningful teaching proceeds** during 2021 school year according to the school calendar.
- To assist teachers with **guided pacing and sequencing** of curriculum content and assessment.

4. Purpose

- To enable teachers to **cover the essential core content /skills including the fundamentals** within the available, **amended** time.
- To assist teachers with **planning** for the different forms of **assessment**.
- To ensure learners are **adequately prepared** for the **subsequent year/s** in terms of content, skills, knowledge, attitudes and values

5. Amendments to the Content Overview for the Phase

Summary: Amendments to the Content Overview for the Phase

Removed	Nothing done	Modified

Grade 7	Grade 8	Grade 9
WHOLE NUMBERS		
Modified by removing Financial Mathematics. Concept of LCM and HCF has been modified	Modified by removing Financial Mathematics	Modified by removing Financial Mathematics

Summary: Amendments to the Content Overview for the Phase

Grade 7	Grade 8	Grade 9
COMMON FRACTIONS AND DECIMAL FRACTIONS		
As in CAPS	As in CAPS	Removed as stand alone topics but to be incorporated into Expressions (Page 122 & 123 of CAPS)
GRAPHS		
Removed	As in CAPS	Modified to focus on straight line graphs only

Summary: Amendments to the Content Overview for the Phase

Grade 7	Grade 8	Grade 9
CONSTRUCTION OF GEOMETRIC FIGURES		
Modified N.B. Provide learners with accurately constructed figures	Removed as a stand alone topic, however, part of Construction has been modified and incorporated into Geometry of 2D shapes	Removed as a stand alone topic, however, part of Construction has been modified and incorporated into Geometry of 2D shapes

Summary: Amendments to the Content Overview for the Phase

Grade 7	Grade 8	Grade 9
GEOMETRY OF 2D SHAPES		
As in CAPS	<p>Investigating properties of geometric figures</p> <p>Merged with Modified Construction of Geometric Figures</p> <p>N.B. Provide learners with accurately constructed figures to investigate the properties</p>	<p>Investigating properties of geometric figures</p> <p>Merged with Modified Construction of Geometric Figures</p> <p>N.B. Provide learners with accurately constructed figures to investigate the properties</p>



Summary: Amendments to the Content Overview for the Phase

Grade 7	Grade 8	Grade 9
GEOMETRY OF 3D OBJECTS		
Removed	Removed	Removed
TRANSFORMATION GEOMETRY		
As in CAPS	Modified: Enlargements and reductions, and rotating a triangle around the origin that have been removed.	Modified: Enlargements and reductions, rotation around a point and reflection in the line $y = x$ that have been removed.
SURFACE AREA AND VOLUME OF 3D OBJECTS		
As in CAPS	Removed	Removed



Summary: Amendments to the Content Overview for the Phase

Grade 7	Grade 8	Grade 9
COLLECT, ORGANISE, REPRESENT, SUMMARISE AND INTERPRET DATA		
<ul style="list-style-type: none"> As in CAPS, however PROVIDE LEARNERS WITH DATA TO SAVE TIME, i.e. learners must NOT collect data 	Removed	Removed
PROBABILITY		
Removed	Removed	Removed

6. Amendments to the Annual Teaching Plan

Summary: Reorganisation of content topics

- Topics that are repetitive have been merged and dealt with once, but in depth
- Some topics that will be dealt with in the next grade with little or no progression have been left out
- Some topics have been moved from one term to the next due to the following reasons:
 - Lack of time in the term
 - To incorporate other topics dealt with

Summary: Reorganisation of content topics

- Topics that link with each other have been dealt with, one after the other
- Hours in some topics have been increased to allow the topic to be taught in depth
- Numbers, Operations and Relationships to be dealt with before all other topics since they form part of almost every topic



Grade 9

Numbers, Operations and Relationships

Summary: Content/Topics Amended

Content/Topics	2020		2021	
	Term	Amendment	Term	Amendment
1.1 Whole Numbers	1	Taught in Term 1	1	Increased from 4.5 hrs to 6 hrs Financial Maths removed
1.2 Exponents	1	Taught in Term 1	1	Nothing done
1.3 Integers	2	Moved from Term 4 to Term 2	1	Nothing done



Summary: Content/Topics Amended

Content/Topics	2020		2021	
	Term	Amendment	Term	Amendment
1.4 Common Fractions	2	As in CAPS	2	To be incorporated into Algebraic Expressions
1.5 Decimal Fractions	2	As in CAPS	2	To be incorporated into Algebraic Expressions



Patterns Functions and Algebra

Summary: Content/Topics Amended

Content/Topics	2020		2021	
	Term	Amendment	Term	Amendment
2.1 Patterns	1	Taught in Term 1	2	Moved from Term 1 To Term 2 and increased from 4.5 hrs. to 6 hrs.
2.2 Functions and Relationships	2	Reduced from 5 hours to 3 hours and moved from Term 2 to Term 3	3	Increased from 5 hrs. to 6.5 hrs.

Summary: Content/Topics Amended

Content/Topics	2020		2021	
	Term	Amendment	Term	Amendment
2.3 Algebraic Expressions	3	Moved from Term 2 to Term 3	2 and 3	Merged , increased from 13.5 hrs. to 16 hrs. and moved from Term 1 to Term 2.
2.4 Algebraic Equations	3	Reduced from 9 hours to 4.5 hours and moved to Term 3. The focus was on factorisation	2 and 3	Merged , increased from 13 hrs. to 13.5 hrs. and moved from Term 1 to Term 2.
2.5 Graphs	3	Reduced from 12 hours to 6 hours. Focus on straight line graphs	4	Reduced from 12 hrs. to 9 hrs. due to Global graphs that have been removed. Line graphs are restricted to $y/x = \pm a$



Space and Shape

Summary: Content/Topics Amended

Content/Topics	2020		2021	
	Term	Amendment	Term	Amendment
3.1 Geometry of 2 D shapes	3	Moved from Term 2 to Term 3	3	Increased from 9 hrs. to 15 hrs. and moved from Term 2 to Term 3 and overlapped to Term 4 due to time.
3.2 Geometry of 3 D objects		Removed		Removed



Summary: Content/Topics Amended

Content/Topics	2020		2021	
	Term	Amendment	Term	Amendment
3.3 Geometry of straight lines	3	Reduced from 9 hours to 4.5 hours and moved from Term 2 to Term 3	3	Moved from Term 2 to Term 3.
3.4 Transformation Geometry	4	Reduced from 9 hours to 7 hours. Exclude rotations	4	Moved from Term 4 to Term 3 and reduced from 9 hrs. to 5 hrs. due to enlargements and reductions, rotation around a point and reflection in the line $y = x$ that have been removed.



Summary: Content/Topics Amended

Content/Topics	2020		2021	
	Term	Amendment	Term	Amendment
3.5 Construction of Geometric figures		Removed	3	Removed as a topic and part of modified Construction of Geometric figures has been incorporated into Geometry of 2D shapes, then moved from Term 2 to Term 3.



Measurement

Summary: Content/Topics Amended

Content/Topics	2020		2021	
	Term	Amendment	Term	Amendment
4.1 Area and Perimeter of 2D shapes	4	Moved from Term 2 to Term 4 to be done with Theorem of Pythagoras for 6 hours (see 4.3)	4	Moved from Term 3 to Term 4 and increased from 5 hrs to 9 hrs.
4.2 Surface Area and Volume of 3 D objects	4	Moved from Term 3 to Term 4		Removed

Summary: Content/Topics Amended

Content/Topics	2020		2021	
	Term	Amendment	Term	Amendment
4.3 Theorem of Pythagoras	4	Moved from Term 3 to Term 4. To be done with Area and Perimeter of 2 D shapes for 6 hours (see 4.1)	4	Moved from Term 2 to Term 4. and reduced from 5 hrs. to 4.5 hrs.



Data Handling

Summary: Content/Topics Amended

Content/Topics	2020		2021	
	Term	Amendment	Term	Amendment
5.1 and 5.2 Collect, organise represent and summarise data	4	Reduced from 10.5 hours to 7 hours and merged with 5.3	4	Removed
5.3 Interpret, Analyse and report data	4	Reduced from 10.5 hours to 4,5 hours, merged with 5.1 and 5.2	4	Removed
5.4 Probability		Removed		Removed



7. Amendments School Based Assessment (SBA)

Informal Assessments

- To be incorporated into every lesson
- May also be written after a completion of all concepts and skills of a topic
- Guidance on how to manage these tasks should be provided



Summary: Revised Programme of Assessment

Term	2020	2021
Term 1	Assignment Test	Assignment Test
Term 2	N/A	Investigation Test
Term 3	Assignment	Project Test
Term 4	Test	Test



Summary: Revised Programme of Assessment

- As in Abridged CAPS Section 4, **however**, Examinations are replaced by Tests
- Term 2 Test which replaces June Examinations will cover Term 1 and Term 2 work.
- Term 4 Test which replaces End of the Year Examinations will cover Term 4 and Fundamentals from Term 1 to 3
- **N.B.** More weighting has to be given to Term 2 and Term 4 work in Term 2 and Term 4 tests, respectively.
- The weighting for SBA and Term 4 Test will be 80% and 20%, respectively.

8. Conclusion

Conclusion

- The revised ATPs must be used in conjunction with clarification notes in CAPS.
- For Term 1 and Term 3 tests, mark allocation per topic will depend on the time allocation per topic in the 'Revised' ATPs.
- For tests that replace examinations, more weighting has to be given to Term 2 and Term 4 work .
- Cognitive levels will apply according to Abridged Section 4 of CAPS

N.B. 'Trimmed ATPs' document is an interim arrangement due to COVID 19

Contact Details

Province	Subject Planners	Email Address
EC	Mr M Zweni	mzweni18@gmail.com
EC	Ms NS Msindo-Ntshele	nodumomsindo@gmail.com
FS	Ms N Msomi	n.msomi@fseducation.gov.za naledimsomi@gmail.com
FS	Mr F Rantene	rantesf@gmail.com
GP	Mr D Maphanga	Dumisani.Maphanga@gauteng.gov.za
KZN	Mr L Mtwla	Lazi.mtwla@outlook.com
LP	Mr RS Rambau	rambours@gmail.com RambauRS@edu.limpopo.gov.za



Contact Details, cont...

Province	Subject Planners	Email Address
MP	Ms H Mashile	tozimash@gmail.com tomashile@mpuedu.gov.za
NC	Ms P Whitten	piwhitten.whitten@gmail.com
NC	Ms E Masdoll	emasdoll@gmail.com
NW	Dr H Baughan	hbaughan@nwpg.gov.za hughbaughan@gmail.com
WC	Mr A Lamprecht	Andre.lamprecht@westerncape.gov.za
DBE	Ms CF Mtumtum	Mtumtum.C@dbe.gov.za



THANK
YOU

