Natural Sciences and Technology CAPS

(Grades 4-6)

SECTION 3: CONTENT

All content relating to Technology should be removed and the subject name be changed accordingly to "Natural Sciences". Thus, the following topics to be removed, and their time allocation be distributed to other topics.

GRADE 4: Term 1

• Structures for animal shelters

GRADE 4: Term 2

- Strengthening materials
- Strong frame structures

GRADE 4: Term 3

Movement and Energy in a system

GRADE 4: Term 4

Rocket systems

GRADE 5: Term 1

Skeletons as Structures

GRADE 5: Term 3

Systems for moving things

GRADE 5: Term 4

Sedimentary rocks

GRADE 6: Term 1

Food Processing

GRADE 6: Term 4

• Systems to explore the Moon and Mars

SECTION 4: ASSESSMENT

4.3 FORMAL ASSESSMENT

Cognitive levels for the assessment in Grades 4, 5 and 6

Low order questions 50%			er questions 5%	High order questions 15%		
Leve1 Level 2 Remembering Understanding		Level 3 Applying	Level 4 Analysing	Level 5 Evaluating	Level 6 Creating	
Exhibit memory of previously learned material by recalling facts, terms, basic concepts, and answers.	Demonstrate understanding of facts and ideas by organizing, comparing, translating, interpreting, giving descriptions, and stating main ideas.	Solve problems to new situations by applying acquired knowledge, facts, techniques and rules in a different way.	Examine and break information into parts by identifying motives or causes. Make inferences and find evidence to support generalizations.	Present and defend opinions by making judgments about information, validity of ideas, or quality of work based on a set of criteria.	Compile information together in a different way by combining elements in a new pattern or proposing alternative solutions.	
acquire categorise choose copy define describe find identify label list	classify compare conclude contrast define demonstrate describe differentiate discuss distinguish	apply build calculate carry out change choose compute construct demonstrate develop	analyse assume attribute break down calculate categorise classify compare conclude contrast	appraise argue arrange assess choose compose conclude construct criticise critique	adapt appraise argue assess build change choose combine compare compile	
locate match memorise name omit point out quote recall	draw estimate exemplify explain express extend identify illustrate	dramatise employ execute exhibit experiment with identify illustrate implement	correlate criticise deconstruct deduce detect devise differentiate discover	decide deduct defend derive design detect determine develop	compose conclude consider construct create criticise decide deduce	

recite	infer	interpret	discriminate	disprove	design
recognise	interpret	interview	dissect	document	develop
record	locate	make use of	distinguish	estimate	devise
relate	match	model	divide	evaluate	elaborate
repeat	outline	modify	examine	experiment	estimate
respond	paraphrase	operate	experiment	explain	evaluate
retrieve	recognise	organise	find	formulate	formulate
select	relate	plan	infer	generalise	generalise
show	rephrase	practice	inspect	hypothesise	hypothesise
state	report	predict	integrate	interpret	imagine
tabulate	represent	relate	investigate	judge	improve
tell	restate	restructure	motivate	justify	infer
trace	review	select	organise	measure	integrate
	show	sketch	outline	modify	invent
	summarise	solve	probe	order	judge
	translate		scrutinise	organise	measure
			separate	predict	modify
			simplify	prioritise	plan
			structure	produce	predict
			survey	propose	produce
			test for	prove	propose
				rank	rate
				rate	rearrange
				recommend	solve
				relate	suppose
				select	test
				test	validate

(Adapted from: Anderson, L. W., & Krathwohl, D. R. (2001). A taxonomy for learning, teaching, and assessing, Abridged Edition. Boston, MA: Allyn and Bacon.)

4.4 PROGRAMME OF FORMAL ASSESSMENT FOR NATURAL SCIENCES AND TECHNOLOGY Grades 4, 5 and 6

The number of assessment tasks for the year is constituted as follows:

- a) Six (6) formal SBA tasks from term 1 to term 3 and one (1) * Examination at the end of the year. Reference to be made to the programme of assessment table for clear outline.
- b) The weighting of practical tasks or investigations will cover any content within that specific term and makes up 40% towards the term mark.
- c) The weighting of content within a test is based on the time allocated to the content as per the annual teaching plan and constitutes 60% towards the term mark. Special reference is made to term 2, where the practical or investigation will constitute 40% and the June exam will constitute 60% towards the term mark.
- d) The weighting for * Examinations for June will constitute 40% of the content from term 1 and 60% of the content from term 2.
- e) The weighting for * Examinations for November will constitute 40% of the content from term 3 and 60% of the content from term 4.

The class tests and * Examinations **must** include questions on all content covered as per indication from the programme of assessment.

Grade 4

	Term 1		Term 2		Term 3		Term 4
Form of Assessment		Test (60%)	Practical Task/ Investigation (40%)	* Examination (60%)	Practical Task/ Investigation (40%)	Test (60%)	* Examination
Tools of Assessment	I Memo & rubric	Memo	Memo & rubric	Memo	Memo & rubric	Memo	Memo
Minimum Marks	20	25	20	40	20	25	40
Time Allocation	40 minutes	60 minutes	60 minutes	60 minutes	40 minutes	60 minutes	60 minutes
Knowledge and skills focus	I lerm 1	Term 1	Term 2	Term 1 (40%) Term 2 (60%)	Term 3	Term 3	Term 3 (40%) Term 4 (60%)
No. of Tasks	2		2		2		1

Grade 5

	Term 1		Term 2		Term 3		Term 4
Form of Assessment		Test (60%)	Practical Task/ Investigation (40%)	* Examination (60%)	Practical Task/ Investigation (40%)	Test (60%)	* Examination
Tools of Assessment	i viemo & rubric	Memo	Memo & rubric	Memo	Memo & rubric	Memo	Memo
Minimum Marks	20	30	20	50	20	30	50
Time Allocation	60 minutes	30 minutes	60 minutes	60 minutes	60 minutes	45 minutes	60 minutes
Knowledge and skills focus	i ierm i	Term 1	Term 2	Term 1 (40%) Term 2 (60%)	Term 3	Term 3	Term 3 (40%) Term 4 (60%)
No. of Tasks	2		2		2		1

Grade 6

	Term 1		Term 2		Term 3		Term 4
Forms of assessment		Test (60%)	Practical Task/ Investigation (40%)	* Examination (60%)	Practical Task/ Investigation (40%)	Test (60%)	* Examination
Tools of assessment	iviemo & rubric	Memo	Memo & rubric	Memo	Memo & rubric	Memo	Memo
Minimum Marks	20	50	20	60	20	50	60
Time allocation	60 minutes	60 minutes	60 minutes	90 minutes	60 minutes	60 minutes	90 minutes
Knowledge and skills focus	i ierm i	Term 1	Term 2	Term 1 (40%) Term 2 (60%)	Term 3	Term 3	Term 3 (40%) Term 4 (60%)
No. of Tasks	2		2		2		1

Notes: * Content, concepts and skills across all the topics, including knowledge of investigations and some skills associated with practical work must be assessed in the written exams.