

Natural Sciences CAPS

(Grades 7 – 9)

SECTION 4: ASSESSMENT

4.3 FORMAL ASSESSMENT

Cognitive levels for the assessment in Grades 7, 8 and 9

Low order questions 50%		Middle order questions 35%		High order questions 15%	
Level 1 Remembering	Level 2 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 locate match memorise	classify compare conclude contrast define demonstrate describe differentiate discuss distinguish draw estimate exemplify	apply build calculate carry out change choose compute construct demonstrate develop dramatise employ execute	analyse assume attribute break down calculate categorise classify compare conclude contrast correlate criticise deconstruct	appraise argue arrange assess choose compose conclude construct criticise critique decide deduct defend	adapt appraise argue assess build change choose combine compare compile compose conclude consider

name	explain	exhibit	deduce	derive	construct
omit	express	experiment with	detect	design	create
point out	extend	identify	devise	detect	criticise
quote	identify	illustrate	differentiate	determine	decide
recall	illustrate	implement	discover	develop	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 FOR GRADES 7, 8 AND 9

Grade 7

	Term 1		Term 2		Term 3		Term 4
<i>Form of Assessment</i>	Practical task/ Investigation	Test	Practical task/ Investigation	Examination	Project	Test	Examination
<i>Tools of Assessment</i>	Rubric/memo/checklist	Memo	Rubric/memo/checklist	Memo	Rubric/memo/ checklist	Memo	Memo
<i>Minimum Marks</i>	20	60	20	80	30	60	80
<i>Time Allocation</i>	60 minutes	90 minutes	60 minutes	120 minutes	Ongoing	90 minutes	120 minutes
<i>Knowledge and skills focus</i>	Term 1	Term 1	Term 2	Term 1, and Term 2	Any term/s	Term 3	Term 3, and Term 4
<i>No. of Tasks</i>	2		2		2		1

Grade 8

	Term 1		Term 2		Term 3		Term 4
<i>Form of Assessment</i>	Practical task/ Investigation	Test	Practical task/ Investigation	Examination	Project	Test	Examination
<i>Tools of Assessment</i>	Rubric/memo/checklist	Memo	Rubric/memo/checklist	Memo	Rubric/memo/ checklist	Memo	Memo
<i>Minimum Marks</i>	20	60	20	100	30	60	100
<i>Time Allocation</i>	60 minutes	90 minutes	60 minutes	120 minutes	Ongoing	90 minutes	120 minutes
<i>Knowledge and skills focus</i>	Term 1	Term 1	Term 1	Term 1 and 2	Any content for the year	Term 3	Term 3 and 4
<i>No. of Tasks</i>	2		2		2		1

Grade 9

	Term 1		Term 2		Term 3		Term 4
<i>Form of Assessment</i>	Investigation	Test	Practical	Examination	Project	Test	Examination
<i>Tools of Assessment</i>	Rubric/memo/checklist	Memo	Rubric/memo/checklist	Memo	Rubric/memo/checklist	Memo	Memo
<i>Minimum Marks</i>	20	80	20	150	30	80	150
<i>Time Allocation</i>	60 minutes	90 minutes	60 minutes	120 minutes	Ongoing	90 minutes	120 minutes
<i>Knowledge and skills focus</i>	Term 1	Term 1	Term 1	Term 1 and 2	Any content for the year	Term 3	Term 3 and 4
<i>No. of Tasks</i>	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.