



Education and Sport Development

Department of Education and Sport Development
Departement van Onderwys en Sportontwikkeling
Lefapha la Thuto le Tlhabololo ya Metshameko

NORTH WEST PROVINCE

NORTH WEST PROVINCIAL ASSESSMENT

GRADE 9

Natural Sciences

Examination Framework

Nov 2018

CONTENT

1.	Purpose
2.	Requirements
3.	Format/Structure of the question papers.
4.	Examinable content, Weight and Marks allocation
5.	Cognitive levels and percentages
6	Guidelines as tabled in the NS IP CAPS document

NATURAL SCIENCES AND EXAMINATION GUIDELINES**GRADES 9****1. PURPOSE**

In order to assist teachers in preparing learners for examinations in the Senior Phase, the North West Department of Education has formulated these Examination Guidelines.

2. REQUIREMENTS.

Learners must bring the following for the examination.

- 2.1. Pen (Black or Blue).
- 2.2. Paper for Section B and C (Answer sheet for Section A will be Provided).
- 2.3. Pencil
- 2.4. Non-programmable calculator
- 2.5. Rubber and
- 2.6. Ruler.

3. FORMAT/STRUCTURE OF QUESTION PAPERS

Grade 9 November Question Paper

Section A of the Question paper will be summarized according to the table below.

SECTION A: <i>Energy and Change & Planet Earth and Beyond</i>		
Question	Type of Question/Content	Marks
Question 1.1.1 – 1.1.10	Multiple-choice questions (10 questions x 1 marks each)	10
Question 1.2.1 – 1.2.10	Column A; column B. Column A 10 items and Column B 12 items	10
Question 1.3.1 – 1.3.4	One word	5
Question 1.3.1 – 1.3.4	(Fill in)	5
Total For Section A		30

Section B of the Question paper will be set from the strand **Energy and Change** and is summarized according to the table below.

SECTION B: Energy and Change		
Question	Type of Question/Content	Marks
Question 2 - 6	Energy and Change	
Total For Section B		39

Section C of the Question paper will be set from the strand **Planet Earth and Beyond** and is summarized according to the table below.

Section C: Planet Earth and Beyond		
Question	Type of Question/Content	Marks
Question 7-11	Planet Earth and Beyond	
Total for Section B		31
Total for the paper		100

COGNITIVE LEVELS

Cognitive level description			Weighting % per paper
Levels			
A	1	Recall (knowledge) <i>Scientific concepts, definitions</i>	40%
B	2	Comprehension <i>Routine calculations, (Basic/ elementary)</i>	45%
C		Analysis, application <i>Explanations, interpretations</i>	
D	3	Evaluation, synthesis <i>Multi-step calculations, application of more than two thought processes</i>	15%

5. Assessment guidelines as tabled in the Natural Sciences Grade 9 Senior Phase CAPS document

The **minimum** expectation, that the teachers must consider when assessing the learners, are tabled below from the CAPS policy document.

Check the learner's knowledge and that they can:**Term 3**

- **explain** and **demonstrate** the two broad groups of forces
- **demonstrate** and **explain** the similarities and differences between
 - gravitational,
 - magnetic and
 - electrostatic forces
- make a table of the differences between mass and weight
- give the scientific explanation of **how** lightning occurs
- construct a simple cell to provide electrical energy from chemical energy
- measure voltages across resistors and the current through them accurately
- give advantages and disadvantages for series and parallel circuits
- draw and interpret various circuit diagrams
- distinguish between series and parallel circuits in the wiring of the home, cars and toys and explain the differences
- describe the national energy supply grid and the impact of electricity generation on the environment
- calculate the energy consumption of various appliances in the home

Term 4

- **describe** the Earth as a complex system of parts (spheres) that interact with each other
- **identify**
 - igneous rock
 - sedimentary rock
 - metamorphic rock
- **describe**
 - igneous rock
 - sedimentary rock
 - metamorphic rock
- **explain** the main processes causing the cycle of the formation of rock
- write about the processes of **separating**
- write about the processes of **extracting metals** from ore
- **describe** the atmosphere and its layers in **detail**
- make a **model** to show the greenhouse effect
- **describe** the impact of global warming
- **show** their understanding of the
 - **birth** of stars,
 - **life** of stars
 - **death** of stars