



KWAZULU-NATAL PROVINCE

EDUCATION
REPUBLIC OF SOUTH AFRICA

GENERAL EDUCATION AND TRAINING

GRADE 6

NATURAL SCIENCES AND TECHNOLOGY PLC PRE-TEST MEMORANDUM 2025 TERM 4

Time: 70 Minutes

Marks: 40

This memorandum consists of **3 pages** (excluding cover page).

SECTION A: Energy and Change (60%)

Question 1

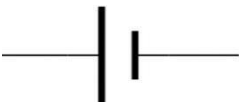
- 1.1 D ✓ (1)
- 1.2 B ✓ (1)
- 1.3 A ✓ (1)
- 1.4 B ✓ (1)
- 1.5 D ✓ (1)

[5]

QUESTION 2

- 2.1 Cell is a single electrochemical that produce energy ✓ whereas battery is made of two or more cells connected to provide electrical energy. ✓ (2)
- 2.2 Steel ✓
Brass ✓
(any other correct answer) (2)
- 2.3 2 cells connected incorrectly. (both positive ends joined) ✓
Switch is open so current cannot pass through it ✓
Light bulb: Only one terminal connected to a circuit. ✓
There is a gap in a circuit so no current can pass through it. ✓ (4)

2.4.1  ✓

2.4.2  ✓

2.4.3  ✓

2.4.4  ✓ (4)

2.5 To control the flow of electricity. ✓ (1)

[13]

Question 3

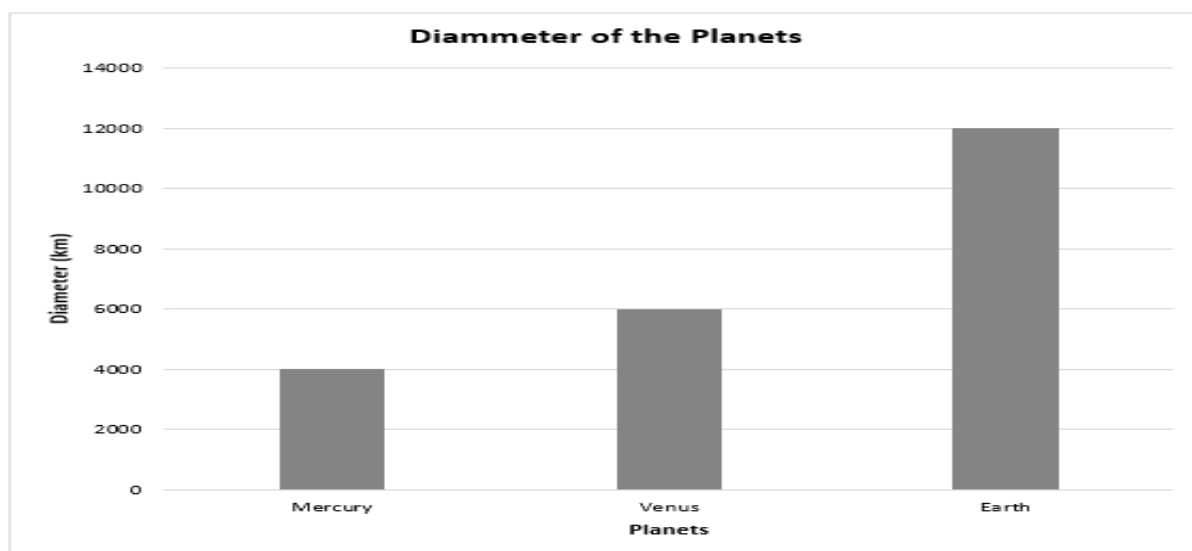
- 3.1 Plastic is harder/stronger than cardboard. ✓ Plastic is water resistant (water proof), water soaks into cardboard (absorbent).✓ (2)
- 3.2 It is not safe to use electrical appliances in a bathroom because water conduct electricity.✓ (1)
- 3.3 Protect us from dangerous effects of electricity. ✓
Protect appliances from damage. ✓ (2)
- 3.4. Rubber, ✓ plastic, wood, grass, etc. (accept any correct answer.) (1)

[6]

SECTION B: Planet Earth and Beyond (40%)

Question 4

- 4.1.1 Sun. ✓ (1)
- 4.1.2 Earth. ✓ (1)
- 4.1.3 You will feel the string pulling on your hand / weight. ✓ (1)
- 4.1.4 365 days✓/It takes the Earth one year to revolve around the sun once. (1)
- 4.2.1



MARKING CRITERIAL FOR QUESTION	
Labelling x-axis correctly	✓
Labelling y-axis correctly	✓
Correctly plotting of Mercury	✓
Correctly plotting of Venus	✓
Correctly plotting of Earth	✓
Caption	✓
Total mark	6

[10]

Question 5

5.1 Telescope is a device that is used to form magnified images of distance objects.√ (1)

5.2 South Africa Largest Telescope √ (1)

5.3 They need them so that they can cover greater distances.√
They also collect rock sample and so they need the rovers to carry the sample back to
Their spacecraft.√ (2)

5.4 Rovers used on the moon are driven by people on the actual rover.√
People have never been to Mars so the Mars' Rovers are operated by people back on
Earth.√ (Manned and Unmanned rovers) (2)

[6]

Total Marks: 40

WEIGHTING GRID FOR NS-TECH GRADE 6 PLC PRE-TEST 2025

QUESTION NO.	LOW ORDER	MIDDLE ORDER	HIGH ORDER	TOTAL
QUESTION 1				
1.1	1			1
1.2	1			1
1.3	1			1
1.4	1			1
1.5	1			1
QUESTION 2				
2.1	2			2
2.2	2			2
2.3		4		4
2.4		4		4
2.5	1			1
QUESTION 3				
3.1			2	1
3.2	1			2
3.3	2			2
3.4	1			1
QUESTION 4				
4.1.1	1			1
4.1.2	1			1
4.1.3	1			1
4.1.4	1			1
4.2		6		6
QUESTION 5				
5.1	1			1
5.2	1			1
5.3			2	2
5.4			2	2
% IN EXAM	50%	35%	15%	
TOTAL MARKS	20	14	6	40