



KWAZULU-NATAL PROVINCE

EDUCATION
REPUBLIC OF SOUTH AFRICA

GENERAL EDUCATION AND TRAINING

GRADE 5

NATURAL SCIENCES AND TECHNOLOGY PLC PRE-TEST 2025 TERM 4

Time: 70 Minutes

Marks: 40

Instructions and Information

1. You must **answer all the questions**.
2. Read the instructions carefully, and answer questions as instructed.
3. Number your answers exactly as the questions are numbered.
4. For **Question 4.1** a graph sheet is provided. **Submit the graph sheet together with your answer sheet.**
5. Write neatly and legibly.

This question paper consists of 4 **pages** and contains **6 questions**.

SECTION A: ENERGY & CHANGE (60% TERM 3 CONTENT)

QUESTION 1

Choose the MOST suitable answer from the given options and write only the letter next to the question number, e.g. 1.1. E

1.1 Which of the following can be a fire threat in our communities?

- A. Uncontrolled gases.
 - B. A lot of fuel.
 - C. Uncontrolled fire.
 - D. Smoke.
- (1)

1.2 Which is the best way to prevent an electrical fire?

- A. Do not plug too many electrical appliances together.
 - B. Make sure candles are in sturdy candleholder.
 - C. Do not pour any fuel onto a burning fire.
 - D. Do not play with matches or lighters.
- (1)

1.3 Which group of electrical components that cannot make the circuit to work.

- A. (Wires, Cells, Light bulb)
 - B. (Switch, Wires, Cells, Light bulb)
 - C. (Battery, Switch, Light bulb, Wires)
 - D. (Wires, buzzer, Light bulb)
- (1)

1.4 How the energy can be stored on an elastic band?

- A. Rolling it.
 - B. Folding it.
 - C. Stretching it.
 - D. Compressing it.
- (1)

1.5 Energy that is released and changed to other forms of energy such as heat.

- A. Output energy.
 - B. Input energy.
 - C. Fuel.
 - D. Stored energy.
- (1)

1.6 A point inside the house where an electrical appliance is connected to an electric circuit.

- A. Plug.
 - B. Wall socket.
 - C. Switch.
 - D. Electric box.
- (1)

[6]

QUESTION 2

Read the article below compiled by the MAROELA MEDIA in 4 January 2017 and answer the questions that follows.

FIRES STILL RAGING IN WESTERN CAPE

Firefighters are still struggling to get the veld fires in the vicinity of Somerset West under control.

Several fire engines and helicopters are being used during the fire, which has been raging in the Heidelberg areas since Tuesday morning. Approximately 120 firefighters, 20 fire trucks and three helicopters are being deployed to control the fire.

Several properties have already been damaged in the fire, while an extensive area of natural vegetation has been damaged. The fires have destroyed the famous Bezweni Lodge. Nobody was hurt in the fire.

Firefighters have been dispatched close to residential areas to ensure safety of residents.

On Tuesday there were about 50 veld fires raging in the Cape Town area. Most of these fires are already under control. A dense smoke cloud hung over Table Mountain.

The N2 at Sir Lowry's Pass was closed on Tuesday evening due to the fires, but has been re-opened since. Because of the Cape Nature has said that the Hottentots and Kogelberg nature reserves will be closed until further notice. In the meantime, the fire at Hans-se-Kop is also still raging and firefighters from the Overberg municipality are trying to bring it under control.

In the early hours of Friday, a destructive fire destroyed five shacks in the informal settlement of Nomzamo. A man, women two girls and a baby boy were burnt to death in the fire, 18 people have been relocated, the cause of the fire is still unknown.

- 2.1 List **two** damages caused by the fire from the article. (2)
- 2.2 List any **two** consequences, beside damage to properties. (2)
- 2.3 Which gas causes the fire to burn more? (1)
- 2.4 Give **one** simple safety rule have been followed to prevent the spread of fire? (1)
- [6]**

QUESTION 3

Study the image of Eskom Power Station below and answer the questions that follow.



(Source: frik21.africa/en/south-africa-eskom-to-reduce-coal-fired-power-generation-by-12-gw-by-2031/)

3.1 Mention any **three** types of power stations that produce the electricity in South Africa. (3)

3.2 Name a fuel source of energy used to generate electricity in South Africa. (1)

3.3 Mention **two** disadvantages of using a fuel-burning stations? (2)

[6]

QUESTION 4

The table below shows the types of toys that are most like by kids.

Types of toys	Percentage of kids (%)
Electric toys	55
Toys work with springs	30
Toys work with elastic bands	15

4.1 Use the information in the table above to draw a bar graph. Use the graph paper provided to draw a graph (6)

[6]

SECTION B : PLANET EARTH AND BEYOND (40% TERM 4 CONTENT)

QUESTION 5

5.1 Explain how do we get the 366 days or leap year. (2)

5.2 Imagine you are considering buying a small farm for growing crops. What kind of soil would you choose and give a reason for our choice. (2)

5.3 Study the picture below and answer the questions that follows.



(Source: <https://www.google.com/>)

5.3.1 Which layer of soil has been removed from the land? (1)

5.3.2 Why it is important for farmers to prevent soil erosion on their land? (2)

[7]

QUESTION 6

6.1 Mention any **two** types of sedimentary rocks. (2)

6.2 Explain how the sedimentary rock is formed. (2)

6.3 Name two types of fossils. (2)

6.4 Using your answers in Question 6.3, Identify the fossil types in the images below.

A



B



C



(Source: Google pics)

(3)

[9]

Total Marks: 40

Name: _____

Question 4.1.

