



TOM NEWBY SCHOOL EXAMINATION



Subject	NATURAL SCIENCE AND TECHNOLOGY	Examiner	MRS GROVES
Date	NOVEMBER 2021	Total marks	45
Grade	5	Duration	1 HOUR
		Moderator	MRS M. FOURIE
Special instructions/ Equipment			
<p>This assessment has been compiled using notes and information contained in the Tom Newby School resource material. The marking memorandum has been compiled accordingly. While alternative responses will be given due acknowledgement, the official memorandum will be considered a priority document to ensure uniformity of marking.</p>			

Name:	Surname:	Class:
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SECTION A – ENERGY AND CHANGE

QUESTION 1 – TRUE OR FALSE QUESTIONS [5]

State whether the following statements are True or False

1.1 Stored energy is also known as potential energy. (1)

1.2 Food is seen as fuel for the body. (1)

1.3 Nitrogen is a flammable liquid that stores energy and releases that energy to form light and heat and is highly poisonous. (1)

1.4 Candles were originally made of beeswax or different plant waxes. (1)

1.5 Solar power is when falling or strong flowing natural water is used as a source of electricity. (1)

QUESTION 2 – ANSWER THE FOLLOWING QUESTIONS [5]

Observe the picture then answer the questions that follow



2.1 Name the source of energy of this fire. (1)

2.2 What two forms of energy do we get from fire? (2)

and

2.3 List two ways to prevent home fires. (2)

QUESTION 3 – DRAWING AND MISSING WORDS [11]

Answer the following questions:

3.1 Draw a simple battery and illustrate the symbols on either point: (3)

3.2 Include the missing words in the following sentences:

- 3.2.1 Batteries contain _____ energy. When it is used, it converts this energy into _____ energy. (2)
- 3.2.2 Energy always flows from the _____ end of the battery to the _____ end.
- 3.2.3 A battery serves as an _____ source in a circuit and creates _____ energy. (2)
- 3.2.4 In mains electricity, the battery is replaced by a _____ that produces electricity on much larger scale. (1)
- 3.2.5 Electricity is sent through _____ and supported by pylons and carried to different substations. (1)

QUESTION 4 – MATCHING ITEMS [5]

Match the correct word in column B with the correct statement in column A. Write the correct letter in the spaces below.

A	B
1. An imaginary line passing through the centre of an object.	A. Revolution
2. Break down into smaller parts	B. Crust
3. The thin layer of soil and rocks on the surface of the Earth.	C. Nutrients
4. The movement of an object in space around object	D. Decompose
5. Substances that organisms need to grow and be healthy	E. Equator
	F. Axis

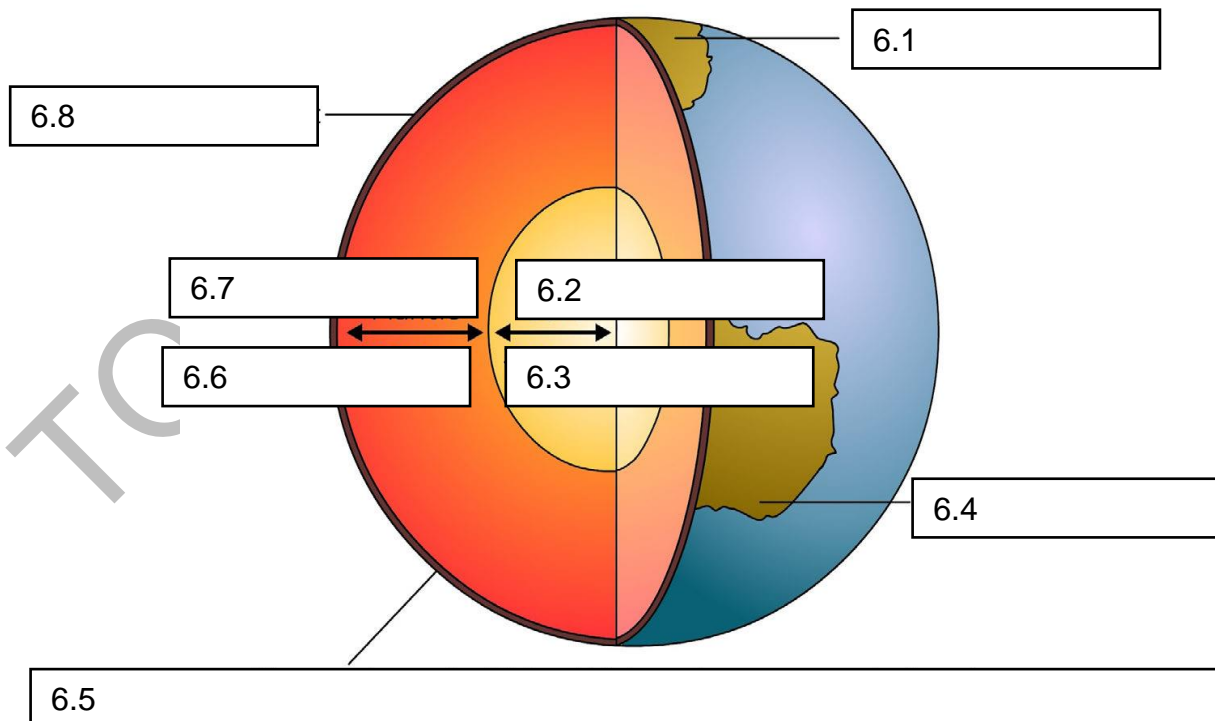
1	2	3	4	5

QUESTION 5 – PARAGRAPH WRITING [6]

In a well-structured paragraph, explain mains electricity in South Africa.

QUESTION 6 – LABEL [8]

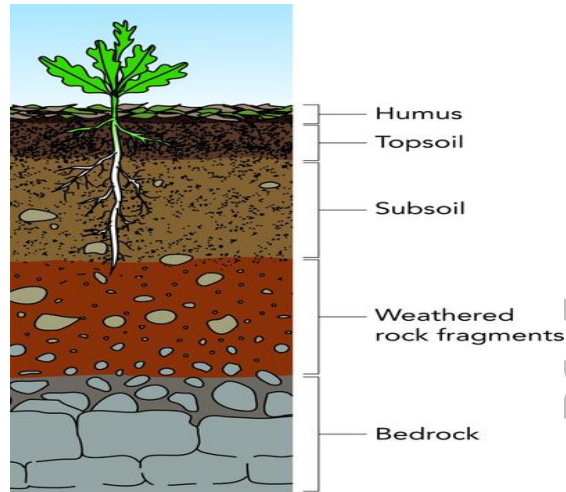
Label the following drawing of the Earth



SECTION B – EARTH AND BEYOND

QUESTION 7 – EVALUATION AND ANALYSING [5]

Study the image and carefully answer the questions that follow:



7.1 What is fossilised matter? (1)

7.2 In which layer of soil would one find fossilised matter? (1)

7.3 If you were presented with 3 percentages (75%, 25%, 0%) of water availability, what percentage of water would be present in each of the following soil types. (3)

a. Bedrock - _____

b. Topsoil - _____

c. Subsoil - _____

TOTAL : 45

Performance Analysis (Teacher use only)

Grade 5 NS & Tech November 2021

Section A

Question	Q1	Q2	Q3	Q4	Q5
Possible mark	5	5	11	5	6
Learner mark					

Section B

Question	Q6	Q7
Possible mark	8	5
Learner mark		