



TOM NEWBY SCHOOL – ECUHULENI NORTH
TERM 4 CONTROLLED TEST

Subject	NS/TECH	Examiner	MS M MPESU
Date	NOVEMBER 2024	Total marks	30
Term	4	Duration	1 HOUR 30 MINS
Grade	4	Moderator	MRS M FOURIE
Instructions	1. Read each question carefully before answering. 2. Answer all questions neatly.		
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.			

Name: _____ Surname: _____ Class: _____

30

This paper consists of 3 sections and 7 pages.

Section A: Energy and change (17)

Section B: Stored Energy (8)

Section C: Earth and beyond (5)

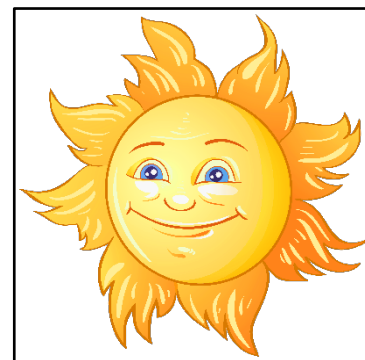
SECTION A: ENERGY AND CHANGE

Question 1 (3)

Multiple Choice: Highlight/Underline the correct answer.

1.1 Energy is the _____ to do something.

- a. Energy
- b. Ability
- c. Source
- d. Energy chain



1.2 The sun is our main _____ of energy.

- a. Chain
- b. Input
- c. Source
- d. Energy

1.3 The transfer of energy from one living thing to another is called...

- a. Energy chain
- b. Energy cycle
- c. Food cycle
- d. Photosynthesis

Question 2 (3)

Match column A to column B. Write the letter of the answer that you have chosen in the spaces provided in the answer grid.

Column A	Column B
2.1 Omnivore	A. Gets its energy from eating plants.
2.2 Herbivore	B. Gets its energy from eating meat.
2.3 Carnivore	C. Gets its energy from eating both meat and plants.

Answer Grid:

2.1	2.2	2.3



Question 3 (3)

Answer True or False

- 3.1 The sun gives us solar energy _____.
- 3.2 Plants are the only living things that can produce their own food using the energy of the Sun _____.
- 3.3 Wood has stored energy _____.

Question 4 (3)

Complete the sentences below by filling in the missing words. Use words from the word box.

Habitat	Ball	Water
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- 4.1 The Earth is shaped like a _____.
- 4.2 Earth's surface is covered with land and _____.
- 4.3 A _____ is a natural home for a plant or animal.

Question 5 (5)

The gardening guide below shows the best activities for the month of May. Use the gardening guide below to complete the activities and questions.

BEST DAYS FOR MAY											
FRI 1					SUN 17						
SAT 2					MON 18						
SUN 3					TUE 19						
MON 4					WED 20						
TUE 5					THU 21						
WED 6					FRI 22						
THU 7					SAT 23						
FRI 8					SUN 24						
SAT 9					MON 25						
SUN 10					TUE 26						
MON 11					WED 27						
TUE 12					THU 28						
WED 13					FRI 29						
THU 14					SAT 30						
FRI 15					SUN 31						
SAT 16											

	Fertile		Semi-fertile		Very barren		Indicates change
	Sow/plant FRUIT		WEEDING		Mow LAWN to increase growth		Mow LAWN to decrease growth
	Sow/plant LEAVES		SOIL PREPARATION		HARVESTING		TRIM plants to increase growth
	Sow/plant ROOTS		TRIM plants to decrease growth		COMPOST and MULCHING		CUTTINGS
	Sow/plant VINE VEG		GRAFTINGS				
	Sow/plant GRAINS						
	Sow/plant HOT VEG						
	Sow/plant FLOWERS / SHRUBS						
	REPOT / TRANSPLANT						
	WATERING / FERTILISING						
	PEST control						

5.1 On which day in May is there a full moon? _____

5.2 Which moon phase is best for harvesting? _____

5.3 How long does it take from one full moon to the next full moon?

5.4 Draw and label your favourite phase of the moon.



SECTION B: STORED ENERGY

Question 6 (6)

Look at the energy transfer diagram below and answer the questions that follow.

An iron transfer heat energy to clothes.



6.1 What is the source of energy in the system above?

6.2 Complete the energy flow diagram.

System **→** input **→** output

6.3 Draw and label any 2 appliances.

Question 7 (2)

John and Themba spent the morning talking about the Sun and planet Earth. In John's opinion, the Sun is the most important part of our solar system. Themba disagrees with him. He thinks that planet Earth is more important.

7.1 John is correct. Give two reasons to support his opinion.

a. _____

b. _____

SECTION C: EARTH AND BEYOND

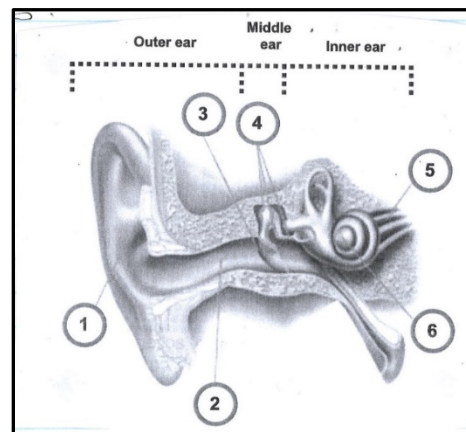
Question 8 (5)

Name the parts labelled 1,2 and 3 in this image of the parts of an ear.

8.1 _____

8.2 _____

8.3 _____



8.4 Noise pollution can damage your ears. List 2 (two) practical ways to reduce noise pollution.

a. _____

b. _____

TOM NEWBY SCHOOL
GRADE 4 NATURAL SCIENCE TEST
PERFORMANCE ANALYSIS
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