



TOM NEWBY SCHOOL
GRADE 5 NATURAL SCIENCES AND TECHNOLOGY
JUNE 2022



Subject	NATURAL SCIENCE AND TECHNOLOGY	Examiner	MRS S GROVES
Date	JUNE 2022	Total marks	60
Grade	5	Duration	1 HOUR
		Moderator	MRS M. FOURIE
Special instructions/ Equipment	<p><u>INSTRUCTIONS:</u></p> <ol style="list-style-type: none"> 1. Learners must have a HB pencil, ruler, and colour pencils 2. This paper is made up of Section A: Life and living (30 marks) and Section B: Matter and Material (30 marks) 3. Read the instructions for each question before answering. 4. All questions must be answered on the question paper. 		
<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 – LIFE AND LIVING

QUESTION 1: Answer the following question on Interdependence

[14]

Study the drawing below. Then answer the questions that follow:



1.1 Name the type of aquatic habitat.

_____ (1)

1.2 Identify an invertebrate animal.

_____ (1)

1.3 Other than the boy in the picture, list two vertebrate animals.

_____ (2)

1.4 Which two elements will the plants use to manufacture its own food?

_____ (2)

1.5 How have the water lilies adapted to live in water?

_____ (2)

1.6 Draw and label the life cycle of the frog

(6)



QUESTION 2 : True or False questions [8]

State whether the following statements are True or False. Write your answers on the lines provided.

2.1 The backbone protects the spinal cord with all the nerve vessels in it.

_____ (1)

2.2 The different joints in the body of a vertebrate enables movement.

_____ (1)

2.3 Frame structures are strengthened with struts and braces.

_____ (1)

2.4 Adaptation is when organisms no longer exist on Earth.

_____ (1)

2.5 Consumers are animals that can produce their own food.

_____ (1)

2.6 Pollination is the process where a plant begins to sprout or grow into a seedling.

_____ (1)

2.7 Omnivores feed off dead plants and animals.

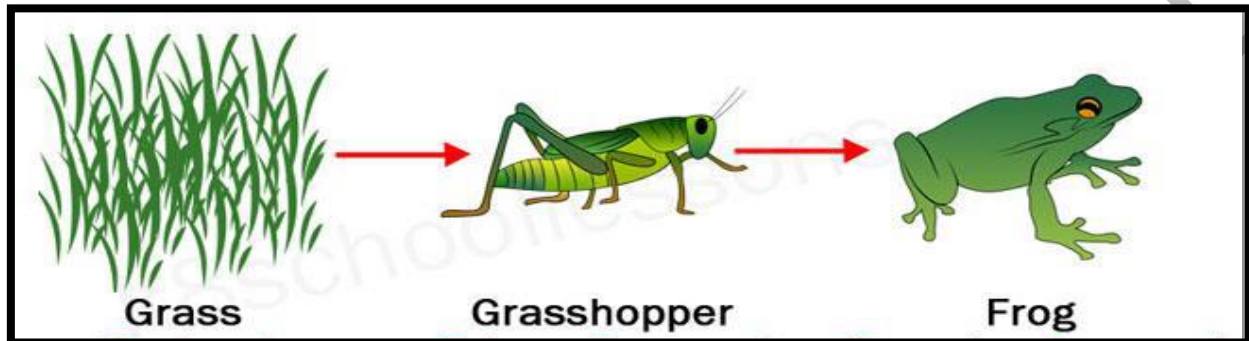
_____ (1)

2.8 Tendons are tough cords that attaches muscles to bones.

_____ (1)

QUESTION 3 – Answer the following questions on food chains [10]

Study the following image carefully. Then answer the questions that follow



3.1 Name the producer in the food chain.

_____ (1)

3.2 Is the frog an omnivore, carnivore, or herbivore?

_____ (1)

3.3 Name a consumer in the food chain.

_____ (1)

3.4 Predict what would happen if the grasshopper was removed from the food chain.

_____ (3)

3.5. Rearrange the following organisms in the correct order to form a food chain.

(4)

(*lion, carrots, fox, rabbit*)

Write the names of the organisms only.

SECTION B – MATTER AND MATERIALS

QUESTION 4 – Matching Items [8]

Match the correct word in column B with the correct statement in column A.

Write the correct letter next in the spaces below.

A	B
4.1 Two or more metals mixed, or a metal mixed with a non – metal	A. Ore
4.2 A metal coated with another metal	B. Properties
4.3 Carries heat or electricity	C. Malleable
4.4 Able to be beaten or hammered into shape	D. Ductile
4.5 Able to be drawn into wires	E. Rust
4.6 The reddish-brown layer formed when iron combines with air and water	F. Conduct
4.7 A type of rock that contains minerals and metals	G. Alloy
4.8 Qualities or characteristics of matter and material	H. Plated

4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8

QUESTION 5 – Outlining Properties

Outline the properties of the metal structure displayed below:

[6]



- 5.1 _____ (1)
- 5.2 _____ (1)
- 5.3 _____ (1)
- 5.4 _____ (1)
- 5.5 _____ (1)
- 5.6 _____ (1)

QUESTION 6 – Short questions on processing

Answer the following questions. [6]

- 6.1 List any two man-made fabrics. _____ (2)
- 6.2 Identify two properties of concrete. _____ (2)
- 6.3 Outline two uses of Plaster of Paris. _____ (2)

QUESTION 7 – ILLUSTRATE AND ANSWER THE QUESTIONS

Draw an image of a magnet and answer the questions that follow [8]

7.1 Draw, colour and indicate the correct poles of a magnet (4)



7.2 Name 4 metals that are magnetic. (4)

TOTAL: 60

PERFORMANCE ANALYSIS:
GRADE 5 NS & TECH JUNE TEST 2022
 (For teacher use only)

Name: _____ Surname: _____ Grade 5: _____

Section	Section A				Section B		
Question number	1	2	3	4	5	6	7
Possible mark	14	8	10	8	6	8	6
Learner's mark							
Moderator's mark							