



TOM NEWBY SCHOOL
GRADE 5 NS AND TECH
TERM 4 FORMAL ASSESSMENT



Subject	NSTech	Examiner	Mrs Groves
Date	November 2022	Total marks	40
Grade	5	Time allocation	1 hour
		Moderator	Mrs Fourie
Special instructions/Equipment:			
1. Answer all the questions on the paper. 2. Write neatly. 3. Good luck! Think before you INK!			
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:
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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 kinetic energy. _____ (1)
- 1.2 Oxygen is seen as fuel for the body. _____ (1)
- 1.3 Diesel is a flammable liquid that stores energy and releases that energy to form light and heat and is highly poisonous. _____ (1)
- 1.4 Wood is a fossil fuel that is burnt to provide electrical energy. _____ (1)
- 1.5 Hydroelectricity is created when falling or strong natural water is used as a source of energy. _____ (1)

QUESTION 2 – ANSWER THE FOLLOWING QUESTIONS [5]

Study the picture and then answer the questions that follow.



2.1 Name the source of energy. _____ (1)

2.2 What two forms of energy do we get from this source?
_____ and _____ (2)

2.3 List 2 ways to use electricity safely.

_____ (2)

QUESTION 3 – ILLUSTRATIONS AND MISSING WORDS [10]

Complete as instructed:

3.1 Illustrate how a flame can be deprived of oxygen. (3)

3.2 **Include the missing words in the following sentences:**

3.2.1 The three elements needed for a fire to burn are _____,
_____ and _____ (3)

3.2.2 _____ is the word used to put out a fire. (1)

3.2.3 _____ is the name given to people who assist in putting out uncontrolled fires. (1)

3.2.4 Two things that may be used to put out a fire are:

a) _____

b) _____ (2)

QUESTION 4 – MATCHING ITEMS [5]

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

A	B
1. To squash something and make it flat.	A. Electrochemical cell
2. Two or more parts that work together for a common purpose or function.	B. Compress
3. Parts of a machine that has a particular job to make a machine work.	C. Fulcrum
4. The centre point of a wheel.	D. System
5. Changes chemical energy into electricity.	E. Mechanism
	F. Electrical circuit

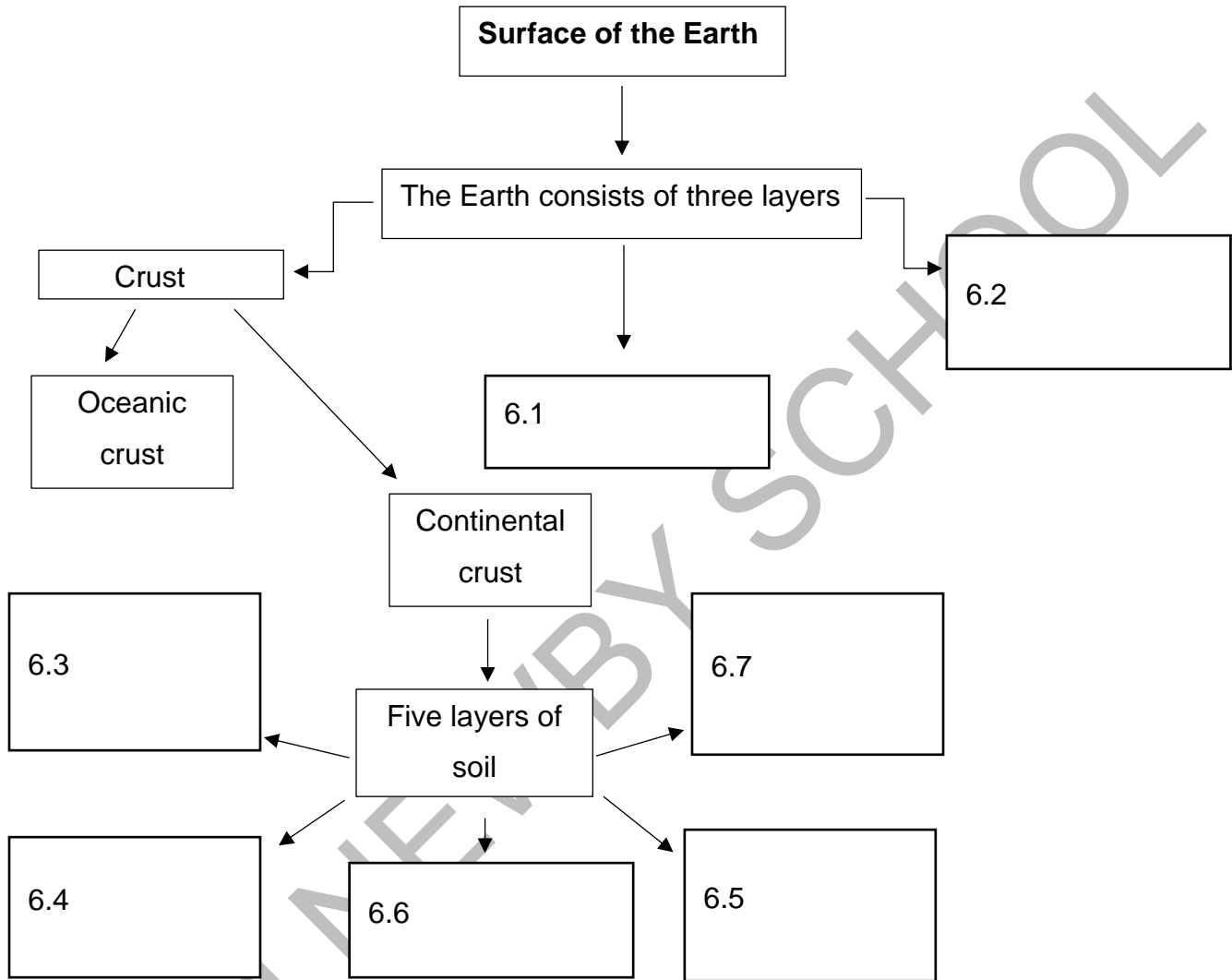
1. _____ 2. _____ 3. _____ 4. _____ 5. _____

QUESTION 5 – PARAGRAPH WRITING [5]

In a well-structured paragraph, explain how elastic bands and springs work.

QUESTION 6 – COMPLETING TABLE [7]

Study the diagram and fill in the missing information. Write your answers on the lines provided below the diagram.



- 6.1 _____
- 6.2 _____
- 6.3 _____
- 6.4 _____
- 6.5 _____
- 6.6 _____
- 6.7 _____

QUESTION 7 – EVALUATION AND ANALYSING [13]

Study the image and carefully answer the questions that follow:



7.1 Identify the well-known fossil in the image. _____ (1)

7.2 Give an approximate age for the fossil.

_____ (1)

7.3 What is the name of the place where it was found and state the area in which it was found?

_____ (2)

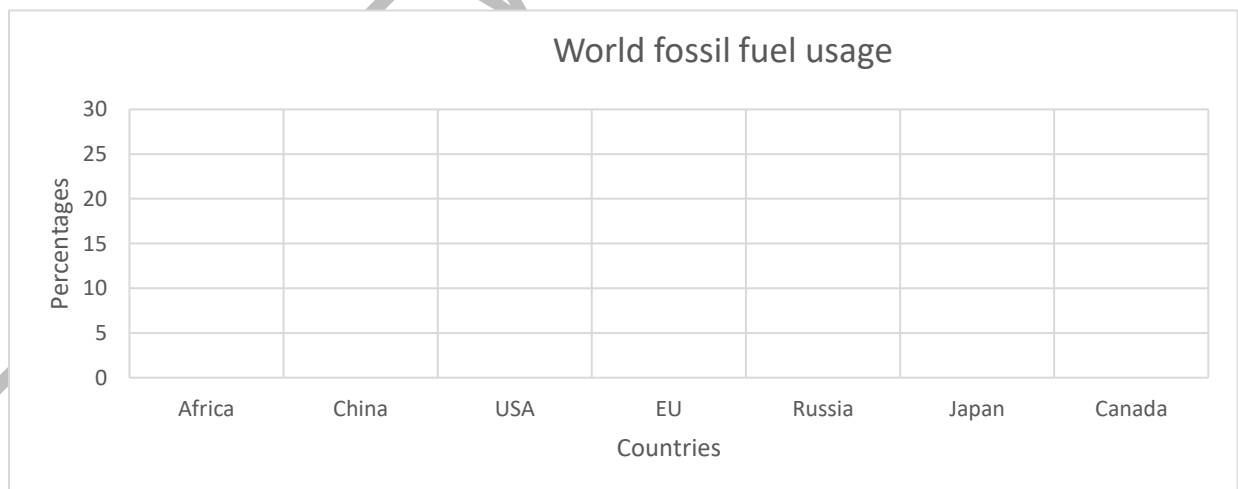
7.5 Who found this fossil?

_____ (2)

7.6 Show how countries throughout the world use fossil fuel as a source of energy by using the following information to complete the bar graph.

Information

China 25%, Russia 6%, Japan 5%, USA 20%, EU 12%, Africa 30%, Canada 2%



TOTAL: 40

Performance Analysis
Grade 5 NS & Tech
TERM 4 FORMAL ASSESSMENT
(ForTeacher's use only)

Section A

Question	Q1	Q2	Q3	Q4	Q5	TOTAL	CONVERSION
Possible mark	5	5	10	5	5	30	24
Learner mark							
Moderated mark							

Section B

Question	Q6	Q7	TOTAL	CONVERSION
Possible mark	7	13	20	16
Learner mark				
Moderated mark				