



**TOM NEWBY SCHOOL**  
**JUNE TEST 2021**



<b>Subject</b>	<b>NATURAL SCIENCE AND TECHNOLOGY</b>	<b>Examiner</b>	<b>MRS S GROVES</b>
<b>Date</b>	<b>JUNE 2021</b>	<b>Total marks</b>	<b>60</b>
<b>Grade</b>	<b>5</b>	<b>Duration</b>	<b>1 HOUR</b>
		<b>Moderator</b>	<b>MRS M. FOURIE</b>
<b>Special instructions/ Equipment</b>	<p>This paper is made up of Section A : Life and living ( 40 marks) and Section B : Matter and Material (20 marks)</p> <ol style="list-style-type: none"> <li>1. Answer all the questions.</li> <li>2. Write neatly and legibly.</li> <li>3. Read the instructions for each question before answering.</li> <li>4. All questions must be answered on the question paper.</li> </ol> <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 [10]**

**Study the following drawing and then answer the questions that follow:**



1.1 Name the type of habitat. (1)

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1.2 What type of water habitat is this? (1)

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1.3 Identify two invertebrate animals. (2)

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1.4 Identify one vertebrate animal. (1)

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1.5 How did the seaweed in the picture adapt to live in this environment? (1)

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1.6 Tabulate one difference between a vertebrate and an invertebrate. (2)

vertebrate	invertebrate
<hr/>	<hr/>
<hr/>	<hr/>

1.7 All fish have backbones. Write two sentences to explain the functions of the backbone. (2)

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## **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 ribs are situated in the chest area, it protects the heart, and other vital organs. (1)

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2.2 Joints are the places where veins and arteries join and allow movement to happen. (1)

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2.3 Shell structures are strengthened with struts and braces. (1)

\_\_\_\_\_

2.4 A nutrient is a substance that help living things to grow. (1)

\_\_\_\_\_

2.5 Consumers are animals that can produce their own food. (1)

\_\_\_\_\_

2.6 Germinate is the process where a plant begins to sprout or grow into a seedling. (1)

\_\_\_\_\_

2.7 Scavengers feed off dead plants and animals. (1)

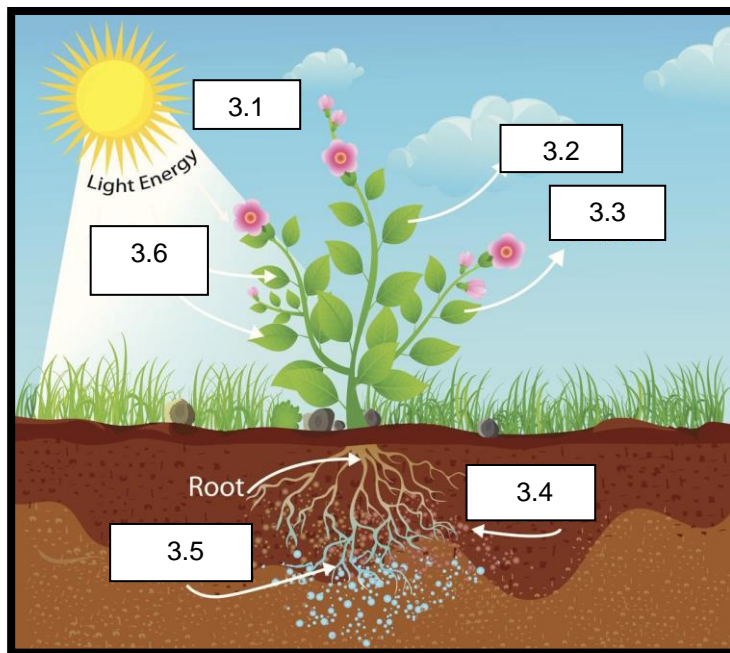
\_\_\_\_\_

2.8 Extinct is a term used to explain all the existing plants and animals on Earth. (1)

\_\_\_\_\_

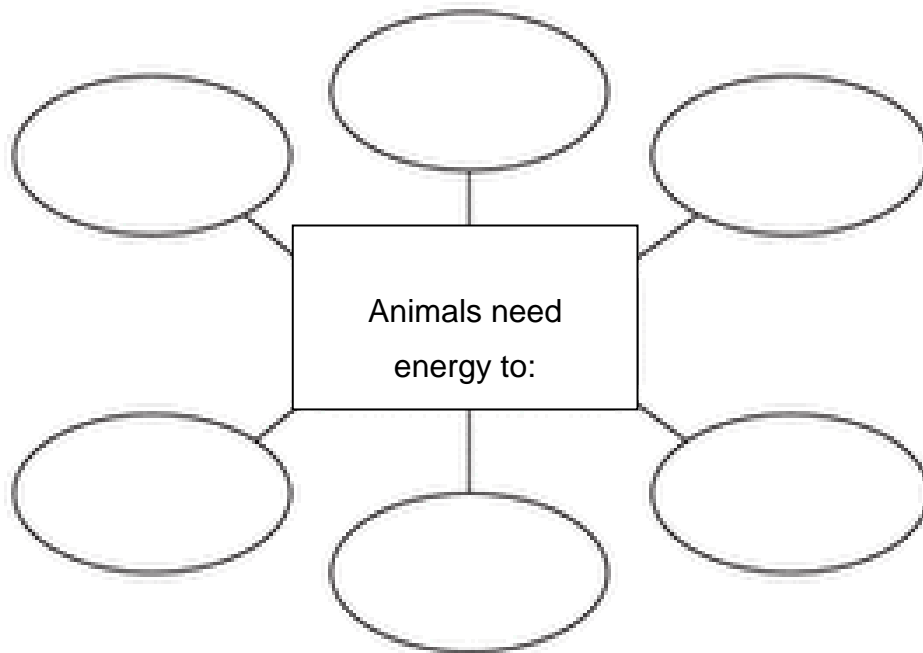
**QUESTION 3 – LABEL THE DRAWING [6]**

**Label the following drawing of the process of photosynthesis: Write your answers in the table provided:**



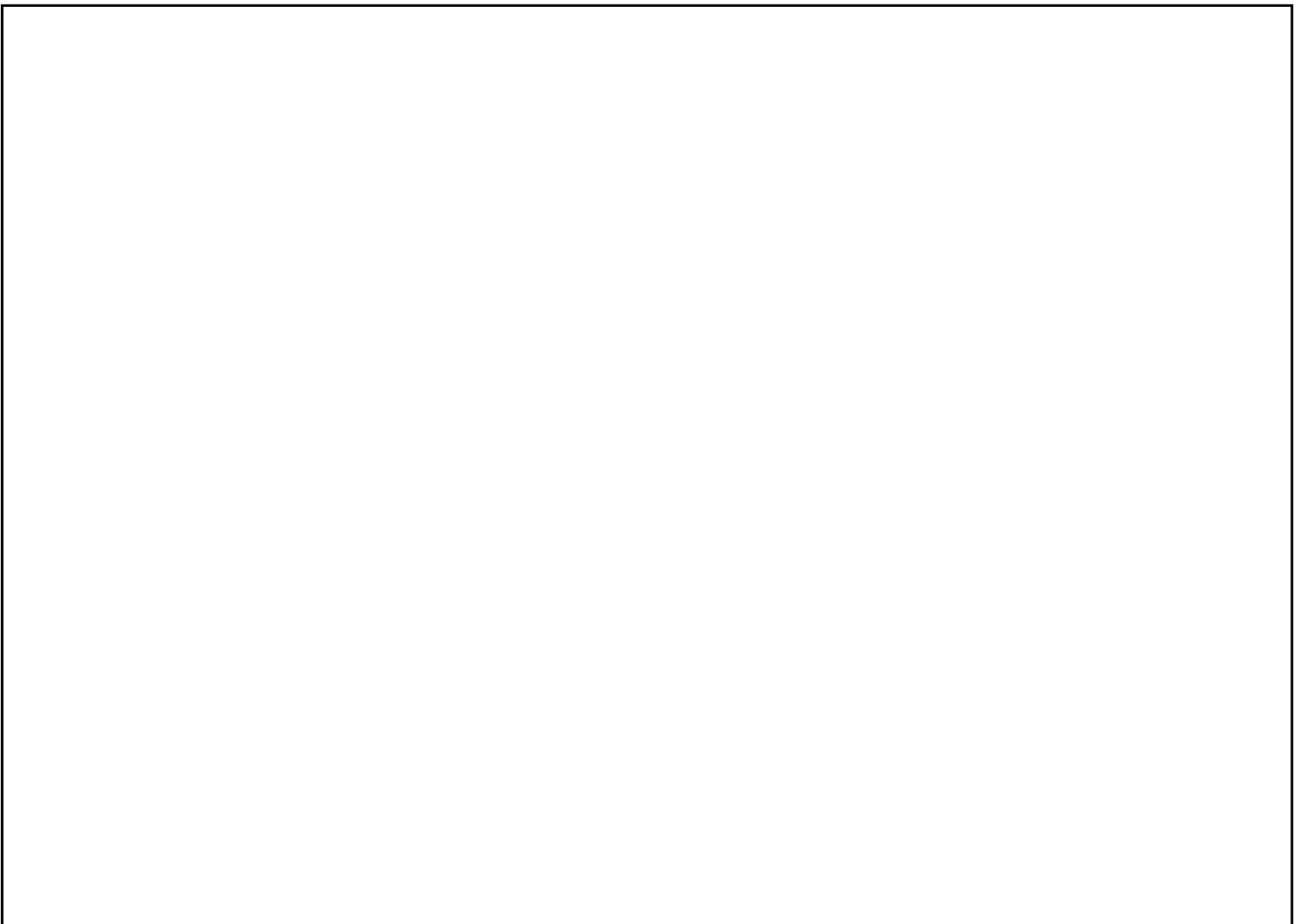
3.1		3.4	
3.2		3.5	
3.3		3.6	

**QUESTION 4 – Complete the mind map that demonstrates the life processes of living organisms: [ 6 ]**



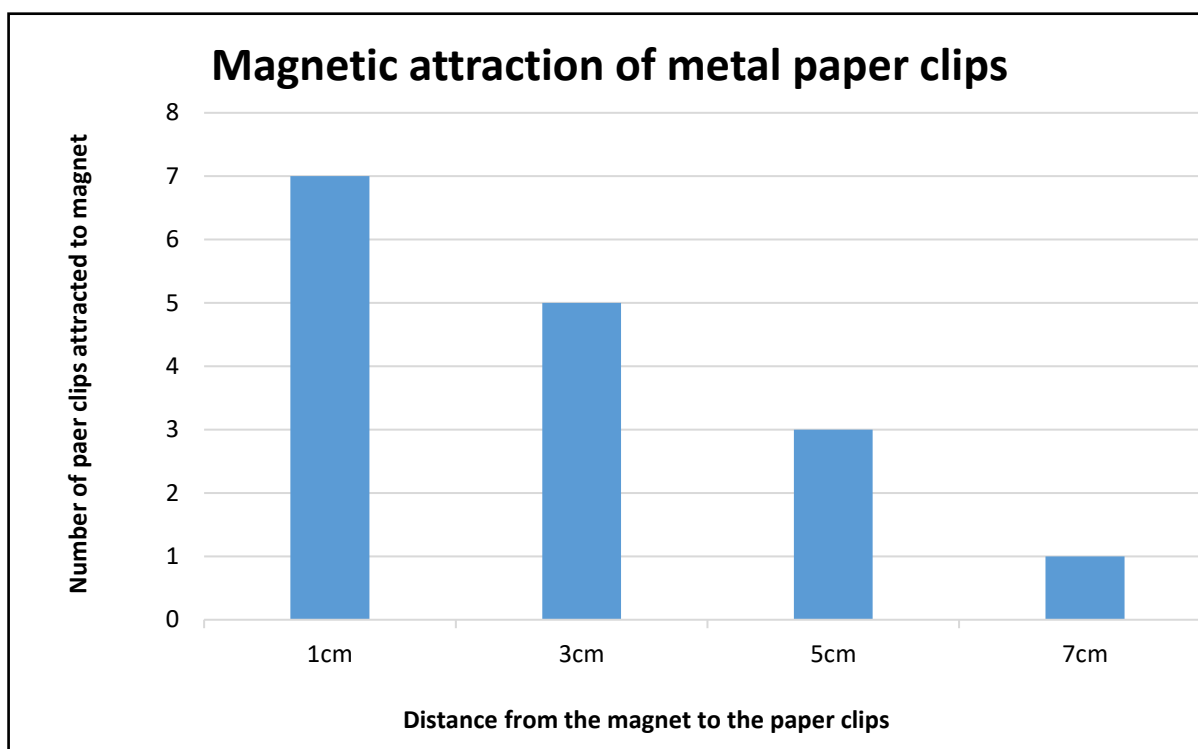
**QUESTION 5 – DRAWING [ 10 ]**

**Draw and label the life cycle of a chicken.**



**SECTION B – MATTER AND MATERIAL****QUESTION 6 – EVALUATION AND ANALYSING [10]**

Study the graph and carefully answer the questions that follow:



6.1 What property of metals is being observed in the graph? (1)

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6.2 What happens every time the magnet is moved 2cm away from the paper clips? (2)

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6.3 What do you predict happens when the magnet is moved closer to the paper clips? (2)

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6.4 At what distance are the most paper clips attracted to the magnet? (1)

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6.5 At what distance are the least paper clips attracted to the magnet? (1)

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6.6 Complete the following sentences: (2)

Opposite magnetic poles \_\_\_\_\_ and like magnetic poles \_\_\_\_\_.

6.7 Name the type of graph being used. (1)

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**QUESTION 7 – MATCHING ITEMS [ 5 ]**

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

**Write the letter of the answer that you have chosen on the answer grid.**

	Column A		Column B
7.1	The reddish- brown layer formed when iron combines with air and water.	a.	Ductile
7.2	Carries heat or electricity.	b.	Malleable
7.3	A type of rock that contains minerals and metals.	c.	Conductor
7.4	Able to be drawn into wires.	d.	Ore
7.5	Able to be beaten or hammered into shape.	e.	Rust
		f.	Varnish

7.1	7.2	7.3	7.4	7.5
_____	_____	_____	_____	_____

**QUESTION 8 – DESCRIPTIONS [ 5 ]**

**Provide suitable descriptions for each of the following:**

8.1 Corrode (1)

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8.2 Tarnish (1)

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8.3 Brittle (1)

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8.4 Ceramic (1)

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8.5 Properties (1)

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**TOTAL: 60**

**Performance Analysis:**  
**Grade 5 NS & Tech June 2021**

Name and Surname: \_\_\_\_\_ Grade 5: \_\_\_\_\_

<b>Section A</b>	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Q5</b>
<b>Question</b>					
<b>Possible mark</b>	<b>10</b>	<b>8</b>	<b>6</b>	<b>6</b>	<b>10</b>
<b>Learner mark</b>					

<b>Section B</b>	<b>Q6</b>	<b>Q7</b>	<b>Q8</b>
<b>Question</b>			
<b>Possible mark</b>	<b>10</b>	<b>5</b>	<b>5</b>
<b>Learner mark</b>			