

# SMARTWIZ

## GRADE 5 NATURAL SCIENCE EXAM

**MARKS: 50**

MARKS	

**TIME: 1 hour**

**SCHOOL** \_\_\_\_\_

**CLASS (e.g. 4A)** \_\_\_\_\_

**SURNAME** \_\_\_\_\_

**NAME** \_\_\_\_\_

MYST PATHWORKS

### Instructions for Students:

- > Read all instructions carefully before beginning the exam.
- > Write your name and student ID clearly on the answer sheet/booklet.
- > Answer all questions unless otherwise stated.
- > Show all your work/calculations where applicable.
- > Write clearly and legibly.
- > Use blue or black ink only. \* Do not use correction fluid/tape.
- > No electronic devices (calculators, phones, etc.) are allowed unless explicitly permitted.
- > Raise your hand if you have any questions.
- > Do not talk to other students during the exam.
- > Any form of cheating will result in disqualification.

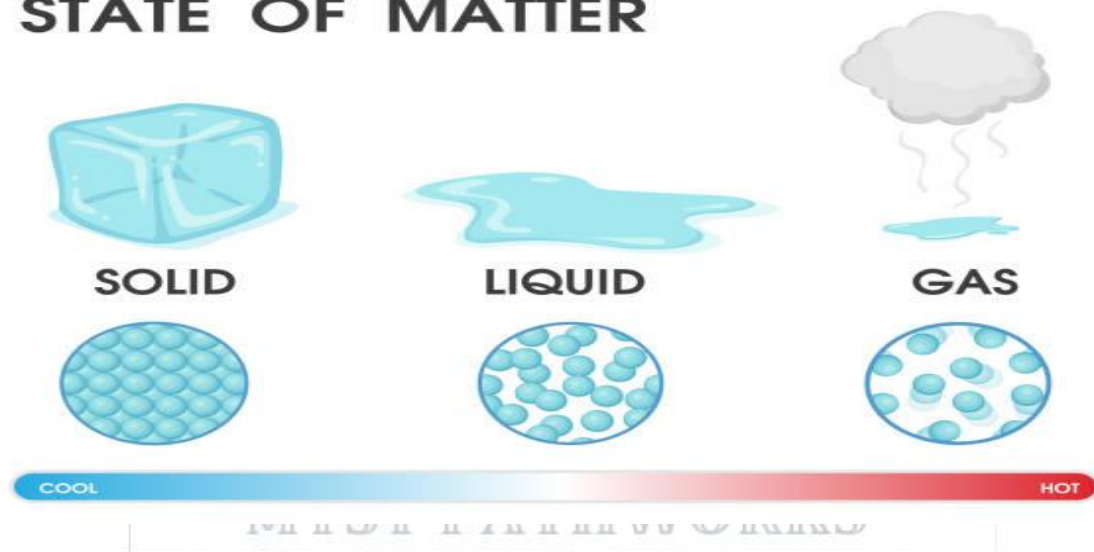
# GRADE 6 NATURAL SCIENCES PAPER

TERM ASSESSMENT

TOTAL: 50 MARKS

## QUESTION 1: MATTER AND MATERIALS (10 MARKS)

### STATE OF MATTER



1.1 Define a solid, a liquid, and a gas. (3)

Solid: \_\_\_\_\_

Liquid: \_\_\_\_\_

Gas: \_\_\_\_\_

1.2 Give one example of each: (3)

Solid: \_\_\_\_\_

Liquid: \_\_\_\_\_

Gas: \_\_\_\_\_

1.3 What will happen to water if it is left in the freezer overnight? Explain why. (2)

\_\_\_\_\_  
\_\_\_\_\_

1.4 What is condensation? (2)

\_\_\_\_\_  
\_\_\_\_\_

## QUESTION 2: ENERGY AND ELECTRICITY (10 MARKS)

2.1 What is an energy source? Give two examples. (3)

Definition: \_\_\_\_\_

Examples: 1. \_\_\_\_\_ 2. \_\_\_\_\_

2.2 What is the difference between renewable and non-renewable energy? (2)

\_\_\_\_\_  
\_\_\_\_\_

2.3 Why is it important to save electricity? (2)

\_\_\_\_\_  
\_\_\_\_\_

2.4 Study the table and complete the missing information. (3)

### Energy Source Renewable or Non-Renewable

Sunlight	_____
Coal	_____
Wind	_____

## QUESTION 3: LIFE AND LIVING (10 MARKS)

3.1 What are the basic needs of animals? Name any four. (4)

- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

3.2 What is a habitat? (2)

\_\_\_\_\_  
\_\_\_\_\_

3.3 Name one animal that lives in each of the following habitats: (3)

- Ocean: \_\_\_\_\_
- Desert: \_\_\_\_\_
- Forest: \_\_\_\_\_

3.4 What do we call animals that eat only plants? (1)

\_\_\_\_\_

## QUESTION 4: PLANET EARTH AND BEYOND (10 MARKS)

4.1 What causes day and night? (2)

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4.2 List the eight planets in the solar system in order from the Sun. (4)

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_
7. \_\_\_\_\_
8. \_\_\_\_\_

4.3 What does the moon do that affects the Earth's oceans? (1)

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4.4 Name one planet that is known as a gas giant. (1)

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4.5 What is a satellite? (2)

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### QUESTION 5: STRUCTURES (10 MARKS)



5.1 What is a structure? (2)

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5.2 Give two examples of man-made structures. (2)

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5.3 What is the purpose of a bridge structure? (1)

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5.4 Study the table and complete it. (3)

Structure Type	Example
Frame Structure	<hr/>
Solid Structure	<hr/>
Shell Structure	<hr/>

5.5 Name one material that is strong and used for building bridges. (1)

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**TOTAL: 50 MARKS**

# GRADE 6 NATURAL SCIENCES MEMO

TERM ASSESSMENT

TOTAL: 50 MARKS

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## QUESTION 1: MATTER AND MATERIALS (10 MARKS)

### 1.1

- Solid: Has a fixed shape and volume.
- Liquid: Takes the shape of the container, but has volume.
- Gas: Fills the entire space available and has no fixed shape. (3)

### 1.2

- Solid: Rock
- Liquid: Water
- Gas: Oxygen (3)

### 1.3

- It will turn into ice because the temperature is below freezing point. (2)

### 1.4

- Condensation is the change from gas to liquid when cooled. (2)
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## QUESTION 2: ENERGY AND ELECTRICITY (10 MARKS)

### 2.1

- An energy source provides energy to do work.
- Examples: Sun, batteries (3)

### 2.2

- Renewable energy can be replaced naturally.
- Non-renewable energy cannot be replaced quickly. (2)

### 2.3

- It reduces pollution and saves money/resources. (2)

## 2.4 Table

Energy Source	Renewable or Non-Renewable
Sunlight	Renewable
Coal	Non-Renewable
Wind	Renewable (3)

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## QUESTION 3: LIFE AND LIVING (10 MARKS)

### 3.1

- Water
- Food
- Shelter
- Air (4)

### 3.2

- A habitat is a place where an animal or plant lives. (2)

### 3.3

- Ocean: Fish
- Desert: Camel
- Forest: Leopard (3)

### 3.4

- Herbivores (1)
- 

## QUESTION 4: PLANET EARTH AND BEYOND (10 MARKS)

### 4.1

- Day and night are caused by the Earth's rotation on its axis. (2)

### 4.2

- Mercury
- Venus
- Earth
- Mars
- Jupiter
- Saturn
- Uranus
- Neptune (4)

### 4.3

- It causes tides. (1)

### 4.4

- Jupiter / Saturn / Uranus / Neptune (1)

### 4.5

- A satellite is an object that orbits a planet.
  - It can be natural (like the moon) or artificial. (2)
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## QUESTION 5: STRUCTURES (10 MARKS)

### 5.1

- A structure is something that has a shape and can support a load. (2)

### 5.2

- House, bridge, tower (any correct man-made structure) (2)

### 5.3

- To help people or vehicles cross over something like water or a road. (1)

### 5.4 Table

Structure Type	Example
Frame Structure	Jungle gym / Ladder
Solid Structure	Brick wall / Rock
Shell Structure	Egg / Dome / Can (3)

### 5.5

- Steel / Concrete (1)
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✓ **TOTAL: 50 MARKS**