

# SMARTWIZ

## GRADE 5 NATURAL SCIENCE EXAM

**MARKS: 50**

MARKS	
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**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.



**QUESTION 1: Life and Living (10 Marks)**

1.1 Name four main parts of a plant. (4)

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1.2 What do plants need to grow? Give three things. (3)

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MYST PATHWORKS

1.3 What process do plants use to make food? (1)

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1.4 Name two animals that live in water. (2)

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**QUESTION 2: Matter and Materials (10 Marks)**

2.1 What are the three states of matter? (3)

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2.2 Fill in the table by ticking (✓) the correct state of matter for each item. (4)

Item	Solid	Liquid	Gas
Ice			
Water			
Steam			
Rock			

2.3 What happens when water boils? (1)

2.4 Give two examples of solids. (2)

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### QUESTION 3: Energy and Change (10 Marks)

3.1 What is light? (2)

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3.2 Name two sources of light. (2)

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3.3 List three ways we can save electricity at home. (3)

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3.4 Why is the sun important for life on Earth? (3)

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**QUESTION 4: Planet Earth and Beyond (10 Marks)**

4.1 What is the Earth's atmosphere made of? Name two gases. (2)

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4.2 What do we call the movement of the Earth around the sun? (1)

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4.3 Why do we have seasons? (2)

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4.4 Name two ways humans can protect the environment. (2)

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4.5 What is the moon? (3)

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**QUESTION 5: Processes and Properties of Materials (10 Marks)**



5.1 What is melting? (2)

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5.2 Write R for reversible or I for irreversible change: (4)

- Freezing water: \_\_\_\_\_
- Burning wood: \_\_\_\_\_
- Folding paper: \_\_\_\_\_
- Cooking an egg: \_\_\_\_\_

5.3 Name two ways to separate mixtures. (2)

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5.4 What does it mean if something is transparent? (2)

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**TOTAL: 50 MARKS**



# MEMO: GRADE 5 NATURAL SCIENCE – PAPER 5

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## QUESTION 1: Life and Living (10 Marks)

1.1 Four main parts of a plant:

- Root ✓
  - Stem ✓
  - Leaves ✓
  - Flower ✓
- (4 marks)**

1.2 Three things plants need to grow:

- Water ✓
  - Sunlight ✓
  - Soil ✓
- (3 marks)**

1.3 Process plants use to make food:

- Photosynthesis ✓
- (1 mark)**

1.4 Two animals that live in water:

- Fish ✓
  - Frog ✓
- (or any other aquatic animal like turtle, whale)
- (2 marks)**

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## QUESTION 2: Matter and Materials (10 Marks)

2.1 Three states of matter:

- Solid ✓
  - Liquid ✓
  - Gas ✓
- (3 marks)**

2.2 Table tick answers:

Item	Solid	Liquid	Gas
Ice	✓		
Water		✓	
Steam			✓
Rock	✓		

**(4 marks – 1 each correct)**

2.3 What happens when water boils?

- It changes from liquid to gas (steam).

**(1 mark)**

2.4 Two examples of solids:

- Wood ✓
- Metal ✓  
(or stone, plastic, etc.)

**(2 marks)**

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### QUESTION 3: Energy and Change (10 Marks)

3.1 What is light?

- Light is a form of energy that helps us see things.

**(2 marks)**

3.2 Two sources of light:

- The sun ✓
- A light bulb ✓  
(or candle, fire, torch)

**(2 marks)**

3.3 Three ways to save electricity at home:

- Switch off lights when not in use.
- Use energy-saving bulbs.
- Unplug appliances when not used.

**(3 marks)**

3.4 Why is the sun important for life on Earth?

- It gives us light and heat.
- Helps plants to grow.



- Keeps the Earth warm.  
(3 marks)
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#### **QUESTION 4: Planet Earth and Beyond (10 Marks)**

4.1 Two gases in the Earth's atmosphere:

- Oxygen ✓
  - Nitrogen ✓
- (2 marks)

4.2 Movement of the Earth around the sun:

- Revolution ✓
- (1 mark)

4.3 Why do we have seasons?

- Because the Earth is tilted on its axis.
  - Different parts get more or less sunlight during the year.
- (2 marks)

4.4 Two ways humans can protect the environment:

- Plant trees.
  - Reduce littering and pollution.
- (2 marks)

4.5 What is the moon?

- The moon is Earth's natural satellite.
  - It orbits the Earth.
  - It reflects light from the sun.
- (3 marks)
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#### **QUESTION 5: Processes and Properties of Materials (10 Marks)**

5.1 What is melting?

- Melting is when a solid changes to a liquid because of heat.
- (2 marks)

5.2 Reversible or irreversible changes:

- Freezing water: **R**

- Burning wood: **I**
- Folding paper: **R**
- Cooking an egg: **I**  
(4 marks — 1 mark each)

5.3 Two ways to separate mixtures:

- Filtering.
- Evaporation.  
(2 marks)

5.4 What does transparent mean?

- Something that lets light pass through so you can see clearly through it.  
(2 marks)

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**TOTAL: 50 MARKS**

