

# SMARTWIZ

## GRADE 5 NATURAL SCIENCE EXAM

**MARKS: 50**

| MARKS |  |
|-------|--|
|-------|--|

**TIME: 1 hour**

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

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

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

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

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**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 What do plants need to grow? (3)

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

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1.3 What is a habitat? (2)

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1.4 Why do animals need food? (3)

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

2.1 Name any three materials we use every day. (3)

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2.2 What is the difference between solid and liquid? (3)

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2.3 Look at the table below and fill in the correct state of matter. (4)

| Item  | State of Matter (Solid, Liquid, Gas) |
|-------|--------------------------------------|
| Water |                                      |
| Air   |                                      |
| Stone |                                      |
| Juice |                                      |

**QUESTION 3: Energy and Change (10 marks)**

3.1 Name two sources of energy. (2)

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3.2 What do we use energy for? (3)

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3.3 Why is the sun an important source of energy? (5)

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

4.1 Name the four seasons. (4)

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4.2 What causes day and night? (2)

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4.3 Name two things we find on the Earth's surface. (2)

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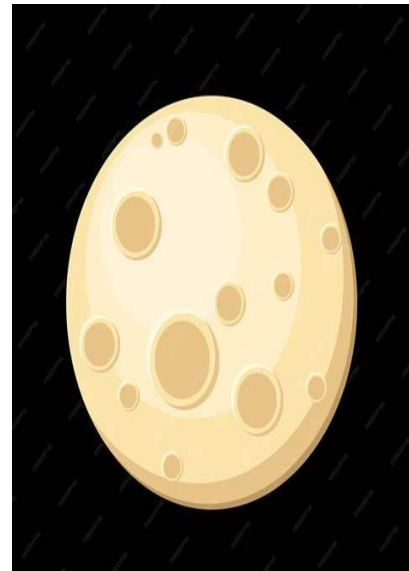
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4.4 What is the moon? (2)

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**QUESTION 5: Mixtures and Solutions (10 marks)**

5.1 What is a mixture? (3)

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5.2 Give two examples of mixtures. (2)

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5.3 What is the difference between a mixture and a solution? (5)

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**TOTAL: 50 MARKS**

## MEMO: GRADE 5 NATURAL SCIENCE TEST (TOTAL: 50 MARKS)

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

1.1

- Sunlight ✓
  - Water ✓
  - Air / Carbon dioxide / Nutrients from soil ✓ (Any 3)
- (3 marks)**

1.2

- Fish ✓
  - Frog / Whale / Octopus / Dolphin / Shark ✓ (Any 2)
- (2 marks)**

1.3

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

1.4

- Animals need food for energy ✓
  - To grow ✓
  - To stay alive / be healthy ✓
- (3 marks)**

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

2.1

- Wood ✓
  - Plastic ✓
  - Glass / Metal / Paper ✓ (Any 3)
- (3 marks)**

2.2

- A solid keeps its shape ✓
  - A liquid takes the shape of the container ✓
  - A solid is hard and a liquid can flow ✓
- (3 marks)**

2.3

**Item State of Matter**

Water Liquid ✓

Air Gas ✓

Stone Solid ✓

Juice Liquid ✓

**(4 marks)**

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**QUESTION 3: Energy and Change (10 marks)**

3.1

- Sun ✓
  - Electricity / Fire / Batteries ✓ (Any 2)
- (2 marks)**

3.2

- Cooking ✓
  - Heating ✓
  - Moving / Lighting / Working machines ✓ (Any 3)
- (3 marks)**

3.3

- The sun gives us heat and light ✓
  - It helps plants grow ✓
  - Plants use sunlight to make food (photosynthesis) ✓
  - Animals eat plants for energy ✓
  - It helps us stay warm ✓
- (5 marks)**
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**QUESTION 4: Planet Earth and Beyond (10 marks)**

4.1

- Summer ✓
  - Autumn ✓
  - Winter ✓
  - Spring ✓
- (4 marks)**

4.2

- The Earth rotates (spins) on its axis ✓
  - One side faces the sun (day), the other is dark (night) ✓
- (2 marks)**

4.3

- Soil ✓
  - Rocks / Water / Grass / Sand ✓ (Any 2)
- (2 marks)**

4.4

- The moon is Earth's natural satellite ✓
  - It moves around the Earth / reflects sunlight ✓
- (2 marks)**

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### QUESTION 5: Mixtures and Solutions (10 marks)

5.1

- A mixture is made when two or more substances are combined ✓
  - They do not change chemically ✓
  - They can often be separated ✓
- (3 marks)**

5.2

- Sand and water ✓
  - Salt and rice / cereal and milk ✓ (Any 2)
- (2 marks)**

5.3

- A mixture is a combination of substances ✓
  - Substances in a mixture can usually be separated ✓
  - A solution is when one substance dissolves in another ✓
  - In a solution, you cannot see the separate parts ✓
  - A solution is a special type of mixture ✓
- (5 marks)**
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