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.

QUESTION 1: Life and Living (10 Marks)



1.1 What do plants need to grow? Name four things. (4)
1.2 What do we call animals that eat both plants and animals? (1)
1.3 Give one example of a carnivore. (1)
210 Give one example of a carmivorer (2)
1.4 Write two uses of plants for humans. (2)
1.5 What is photosynthesis? (2)

QUESTION 2: Matter and Materials (10 Marks)

2.1 Cho	pose the correct word: (Write the word) (5)
•	A plastic bottle is (solid/liquid/gas) Answer:
•	Steam is a (liquid/gas/solid) Answer:
•	Water changes to ice by (melting/freezing/boiling) Answer:
•	A sponge feels (smooth/hard/soft) Answer:
•	Glass is because you can see through it. Answer:
2.2 Giv	e two materials that can dissolve in water. (2)
2.3 Nar	me three properties of metal. (3)

QUESTION 3: Energy and Change (10 Marks)

QUESTION 4: Planet Earth and Beyond (10 Marks)

4.1 What is pollution? (2)
4.2 Name two ways people can help protect nature. (2)
4.2 What does the sup give us 2 (2)
4.3 What does the sun give us? (2)
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4.4 Fill in the missing words: (4)The Earth rotates on its
We see the moon because it reflects
Stars are balls of burning
The sun appears to rise in the
QUESTION 5: Processes and Properties of Materials (10 Marks)
5.1 What is a mixture? (2)

.3 Ho	w can we separate stones from rice? (1)
4 Sta	te whether the following changes are reversible or irreversible. (4)
•	Melting butter:
•	Burning wood:
•	Dissolving sugar:
•	Frying an egg: MYST PATHWORKS
.5 Giv	e two reasons why recycling is important. (2)

TOTAL: 50 MARKS

MEMO: GRADE 5 NATURAL SCIENCE

QUESTION 1: Life and Living (10 Marks)

- 1.1 What do plants need to grow?

 - Air <
 - Soil/nutrients

 ✓

 (4 marks)
- 1.2 Animals that eat both plants and animals are called:
 - Omnivores

 ✓

 (1 mark)
- 1.3 Example of a carnivore:
- 1.4 Two uses of plants for humans:

 - Medicine / Oxygen / Shelter / Furniture

 (2 marks)
- 1.5 Photosynthesis:

QUESTION 2: Matter and Materials (10 Marks)

2.1 Fill in the correct words:

- A plastic bottle is **solid**

 ✓

- A sponge feels **soft**

 ✓
- Glass is transparent

 ✓
 (5 marks)
- 2.2 Two materials that can dissolve in water:

 - Sugar

 ✓ (2 marks)

2.3 Three properties of metal:

- Strong

 ✓
- Hard / Can conduct electricity / Can be bent

 ✓
 (3 marks)

QUESTION 3: Energy and Change (10 Marks)

3.1 Source of energy for plants:

• The sun

✓

(1 mark)

3.2 I WO Sources of field chergy	sources of heat energy	3.2	3
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- Fire ⋞∕
- Electricity / Gas / Sun ♥
 (2 marks)

3.3 One use of energy in your home:

- Lighting

 ✓
 (1 mark)

3.4 Why must we use electricity carefully?

- To prevent load shedding / safety

 (2 marks)

3.5 Match energy sources with uses:

Energy Source	Use
Solar energy	Heating water / solar panels ≪
Electrical energy	Lights / appliances / TV ⋞⁄

Energy Source	Use
Food energy	Body movement / walking / thinking ∜
Wind energy	Turning windmills / generating power ≪
(4 marks – 1 mark each)	

QUESTION 4: Planet Earth and Beyond (10 Marks)

4.1 Pollution:

Pollution is when harmful things are added to the environment like (2 marks)

4.2 Two ways to protect nature:

- - Plant trees

 ✓
 - Do not litter / recycle / clean water ⋞ (2 marks)
- 4.3 What does the sun give us?
 - Light ≪
 - Heat ⋞∕ (2 marks)
- 4.4 Fill in the blanks:
 - The Earth rotates on its **axis**

 ✓
 - We see the moon because it reflects **sunlight** ⋄

•	The sun appears to rise in the east (4 marks − 1 mark each)
QUEST	ION 5: Processes and Properties of Materials (10 Marks)
5.1 Mix	kture:
•	A mixture is made when two or more things are combined but can still be separated. (2 marks)
5.2 Exa	mple of mixture:
•	Cereal and milk / sand and water / salad (1 mark)
5.3 Sep	parate stones from rice:
•	By hand / using a sieve (1 mark)
5.4 Rev	versible (R) or Irreversible (I):
•	Melting butter: R ≪
•	Burning wood: I ∜
•	Dissolving sugar: R ≪
•	Frying an egg: I (4 marks)
5.5 Tw	o reasons why recycling is important:
•	Saves natural resources ♥

• Stars are balls of burning $\mathbf{gas} \ensuremath{\, arphi \,}$

Reduces waste / protects the environment

✓
(2 marks)

TOTAL: 50 MARKS

