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# GRADE 4

## Natural Science & Technology

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## A. Paper structure for the Olympiad

Multiple Choice Questions and Application Questions.

## B. How does it align with the curriculum?

CAPS topics include:

- Life and Living (For example, habitats, photosynthesis, plant requirements)
- Application Skills (Problem-solving in each scenario)
- Matter and Materials (States of matter and phase changes)
- Planet Earth and Beyond (Astronomy)
- Systems and Control (Energy)
- Technology and inventors (Why are technology devices important)

## C. How does it go beyond?

The olympiad includes some general knowledge and conceptual questions based on the practical implementation of natural sciences in everyday life.

## D. Sample questions

There are multiple-choice questions which are structured according to Bloom's Taxonomy.

### 1. Multiple Choice Questions

1. What is the process called when a liquid turns into a gas?

a) Condensation

b) Evaporation

c) Freezing

d) Melting

2. Which planet in our solar system is called the "Red Planet"?

a) Venus

b) Jupiter

c) Mars

d) Saturn

3. What force pulls objects towards the centre of the Earth?

a) Magnetic force

b) Gravity

c) Friction

d) Wind

4. Which of these is NOT a state of matter?

a) Solid

b) Liquid

c) Gas

d) Rock

5. What is the main function of roots in a plant?

a) To produce flowers

b) To absorb water and nutrients

c) To make food through photosynthesis

d) To produce seeds

6. Which of these is a renewable energy source?

a) Coal

b) Natural gas

c) Solar power

d) Oil

7. What is the largest organ in the human body?

a) Heart

b) Brain

c) Liver

d) Skin

8. Which of these animals goes through metamorphosis?

a) Dog

b) Fish

c) Butterfly

d) Bird

9. What causes day and night on Earth?

a) The Earth's rotation

b) The Moon's phases

c) The Sun's movement

d) The Earth's revolution around the Sun

10. Which adaptation helps a cactus survive in the desert?

a) Large leaves

b) Deep roots

c) Thin bark

d) Soft stem

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**Answers**

1. b) Evaporation
2. c) Mars
3. b) Gravity
4. d) Rock
5. b) To absorb water and nutrients
6. c) Solar power
7. d) Skin
8. c) Butterfly
9. a) The Earth's rotation
10. b) Deep roots