E-mail: Info@saolympiads.co.za website : www.saolympiads.co.za

GRADE 6

Natural Science & Technology

E-mail: Info@saolympiads.co.za website: www.saolympiads.co.za

A. Paper structure for the Olympiad

Multiple Choice questions that are structured according to Bloom's taxonomy.

B. How does it align with the curriculum?

CAPS topics include:

- Life and Living
- Application Skills
- States of Matter
- Astronomy
- Healthy lives and diseases associated with diets.

C. How does it go beyond?

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

D. Sample questions

Multiple choice questions

1. Which of the following is an example of a physical change?

   a) Rusting of iron

   b) Burning of wood

   c) Melting of ice

   d) Baking a cake

2. What is the function of the mitochondria in a cell?

   a) Store genetic material

   b) Produce energy

   c) Control cell activities

   d) Produce proteins

3. Which of these is NOT a type of renewable energy?

   a) Solar

   b) Wind

   c) Natural gas

   d) Hydroelectric

4. What is the term for the joining of gametes in sexual reproduction?

   a) Mitosis

   b) Meiosis

   c) Fertilization

   d) Pollination

5. Which of the following is a characteristic of all living things?

a) Ability to fly

b) Presence of chlorophyll

c) Ability to reproduce

d) Presence of a backbone

6. What is the pH of a neutral solution?

a) 0

b) 7

c) 14

d) 10

7. Which force opposes the motion of objects through the air?

a) Gravity

b) Magnetism

c) Friction

d) Buoyancy

8. What is the main function of the ozone layer?

a) Regulate temperature

b) Protect from UV radiation

c) Produce oxygen

d) Control air pressure

9. Which of these is an example of a sedimentary rock?

a) Marble

b) Granite

c) Limestone

d) Obsidian

10. What is the process by which a solid changes directly to gas without becoming a liquid?

a) Melting

b) Evaporation

c) Sublimation

d) Condensation

E-mail: Info@saolympiads.co.za website: www.saolympiads.co.za

Answers:

1. c) Melting of ice
2. b) Produce energy
3. c) Natural gas
4. c) Fertilization
5. c) Ability to reproduce
6. b) 7
7. c) Friction
8. b) Protect from UV radiation
9. c) Limestone
10. c) Sublimation