Cornwall Islamic Foundation
Grade 3

Grade 3 Science topics

A. Materials

1. Identify materials in objects
2. Identify multiple materials in objects

B. States of Matter

1. Classify matter as solid, liquid or gas
2. Identify solids, liquids and gases
3. Sort solids, liquids and gases

C. Phase change

1. Change-of-state diagrams: solid, liquid and gas
2. Heating, cooling and changes of state

D. Heat and thermal energy

1. Predict heat flow
2. Predict temperature changes
3. How is temperature related to thermal energy?

E. Physical and chemical change

1. Identify physical and chemical changes
2. Compare physical and chemical changes

F. Force and motion

1. Identify pushes and pulls
2. How do balanced and unbalanced forces affect motion?
3. How do mass and force affect motion?
4. Compare the speeds of moving objects

G. Magnets

1. Identify magnets that attract or repel
2. Label magnets that attract or repel
3. Compare strengths of magnetic forces

H. Animals

1. Pollinator: ruby-throated hummingbird
2. Pollinator: painted lady butterfly
3. Seed disperser: Eurasian red squirrel
4. Seed disperser: common ostrich
5. Benefits of group behaviour: North American caribou
6. Benefits of group behaviour: leafcutter ants

I. Plants

1. Classify fruits and vegetables as plant parts
2. Identify plant parts and their functions
3. How do plants make food?
4. Read and construct flowering plant life cycle diagrams
5. How do flowering plants make new plants?

J. Ecosystems

1. Identify ecosystems
2. Describe ecosystems
3. Identify roles in food chains
4. How does matter move in food chains?
5. Interpret food webs

K. Fossils

1. Introduction to fossils
2. Compare fossils to modern organisms
3. Compare ancient and modern organisms: use observations to support a hypothesis
4. How do rock layers form?

5 Interpret evidence from fossils in rock layers

L. Weather and climate

1 Read a thermometer
2 Compare temperatures on thermometers
3 Collect and graph temperature data

M. Earth's features

1 Water on Earth
2 Label parts of water cycle diagrams
3 Natural resources
4 Identify Earth's land features

N. Earth events

1 Classify changes to Earth's surface I
2 Classify changes to Earth's surface II
3 Find evidence of changes to Earth's surface
4 Changes to Earth's surface: earthquakes
5 Changes to Earth's surface: volcanic eruptions
6 Changes to Earth's surface: erosion

O. Engineering practices

1 Solve problems using magnets
2 Evaluate multiple design solutions to prevent erosion
3 Evaluate multiple design solutions to prevent flooding
4 Identify the best design solution to prevent hurricane damage

P. Units and measurement

1 Choose units of time
2 Choose units of distance
3 Abbreviate time and length units
4 Abbreviate mass and volume units


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