Cornwall Islamic Foundation

Grade 4 Science, Math & English Curriculum Topics — November 2026

Grade 4 Science topics

A. States of matter

1. Identify and sort solids, liquids and gases
2. Change-of-state diagrams: solid, liquid and gas
3. Heating, cooling and changes of state

B. Electricity and magnets

1. Introduction to static electricity and charged objects
2. Identify magnets that attract or repel
3. Label magnets that attract or repel
4. Compare strengths of magnetic forces

C. Energy

1. Energy transformation

D. Heat and thermal energy

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

E. Light and sound

1. How do we see objects?
2. How does light travel and interact with matter?

F. Plants

1. Classify fruits and vegetables as plant parts
2. Identify plant parts and their functions
3. How do plants make food?
4. Identify flower parts and their functions

G. Adaptations

1. Introduction to adaptations

2. Animal adaptations: beaks, mouths and necks

3. Animal adaptations: feet and limbs

4. Animal adaptations: skins and body coverings

H. Traits and heredity

1. Observe and compare traits

2. What affects traits? Use observations to support a hypothesis

3. Inherited and acquired traits: use evidence to support a statement

4. Read a plant pedigree chart

5. Read an animal pedigree chart

I. 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

J. Conservation and natural resources

1. Science literacy: how can a community protect sea turtles?

2. Evaluate natural energy sources

K. Rocks and minerals

1. Classify rocks and minerals by colour, shape and texture

2. Changes to Earth's surface: erosion

3. Identify rocks using properties

4. Classify rocks as igneous, sedimentary or metamorphic

5. Label parts of rock cycle diagrams

6. Select parts of rock cycle diagrams

L. Fossils

1. Introduction to fossils

2. Identify and classify fossils

3. Compare fossils to modern organisms

4. Compare ancient and modern organisms: use observations to support a hypothesis

5. Interpret evidence from fossils in rock layers

M. Earth's systems

1. Describe the lithosphere, biosphere, hydrosphere, and atmosphere

N. Earth events

1. Changes to Earth's surface: earthquakes
2. Changes to Earth's surface: volcanic eruptions

O. Astronomy

1. Shadows
2. Earth's rotation and orbit
3. Day and night
4. Identify phases of the Moon
5. Solar eclipses

P. Engineering practices

1. Evaluate multiple design solutions to prevent flooding
2. Identify the best design solution to prevent hurricane damage

Q. Units and measurement

1. Choose units of distance
2. Choose units of mass
3. Choose units of volume