Cornwall Islamic Foundation

Grade 6 Science, Math & English Curriculum Topics — November 2026

Grade 6 Science topics

A. Science practices and tools

1. Identify steps of the scientific method
2. Identify laboratory tools
3. Laboratory safety equipment

B. Designing experiments

1. Identify control and experimental groups
2. Identify independent and dependent variables
3. Understand an experimental protocol about plant growth
4. Understand an experimental protocol about diffusion
5. Understand an experimental protocol about evaporation

C. Engineering practices

1. Identify parts of the engineering-design process
2. Evaluate tests of engineering-design solutions
3. Use data from tests to compare engineering-design solutions
4. Explore the engineering-design process: going to the Moon!

D. Matter and mass

1. Compare the densities of substances (New!)
2. Understand conservation of matter using graphs

E. Speed, distance and time

1. Calculate speed from time and distance
2. Calculate distance from speed and time
3. Calculate time from speed and distance
4. Calculate speed, distance and time I
5. Calculate speed, distance and time II

F. Acceleration and forces

1. Identify whether objects are accelerating
2. How does mass affect force and acceleration?
3. Predict forces using Newton's third law of motion
4. Balanced and unbalanced forces
5. Collisions and car safety features

G. Energy

1. Identify changes in gravitational potential energy
2. Explore energy transformations: roller coaster ride

H. Electricity and magnetism

1. Introduction to static electricity and charged objects
2. Electric circuits
3. Conductors and insulators
4. Compare magnitudes of magnetic forces

I. Particle motion and energy

1. How does particle motion affect temperature?
2. Particle motion and changes of state
3. How does particle motion affect gas pressure?
4. Identify how particle motion affects temperature and pressure

J. Scientific names

1. Identify common and scientific names
2. Origins of scientific names
3. Use scientific names to classify organisms

K. Classification

1. Identify mammals, birds, fish, reptiles and amphibians
2. Identify vertebrates and invertebrates
3. Use evidence to classify mammals, birds, fish, reptiles and amphibians
4. Use evidence to classify animals
5. Describe, classify and compare kingdoms

L. Plants

1. Identify plant parts and their functions
2. Classify fruits and vegetables as plant parts
3. Identify flower parts and their functions

M. Animals

1. Read and construct animal life cycle diagrams
2. Compare animal life cycles

N. Anatomy and physiology

1. Body systems: circulation and respiration
2. Body systems: digestion
3. Body systems: removing waste
4. Body systems: perception and motion
5. Science literacy: how does the nervous system produce phantom pain?

O. Adaptations and natural selection

1. Animal adaptations: feet and limbs
2. How can animal behaviours affect reproductive success? Identify evidence to support a claim
3. Introduction to natural selection
4. Calculate the percentages of traits in a population
5. Calculate the averages of traits in a population
6. Construct explanations of natural selection

P. Plant reproduction

1. Flowering plant and conifer life cycles
2. Moss and fern life cycles

Q. Photosynthesis

1. How do plants use and change energy?
2. Identify the photosynthetic organism

R. Ecosystems

1. Describe populations, communities and ecosystems
2. Identify ecosystems

3. Describe ecosystems

S. Conservation

1. Coral reef biodiversity and human uses: explore a problem
2. Coral reef biodiversity and human uses: evaluate solutions

T. Natural resources and human impacts

1. Petroleum formation and distribution on Earth (New!)
2. Evaluate claims about natural resource use: groundwater
3. Evaluate claims about natural resource use: fossil fuels

U. The atmosphere

1. Explore air masses
2. Identify and compare air masses
3. How do air masses form?
4. The greenhouse effect

V. Weather and climate

1. Weather and climate around the world
2. Weather or climate? Cite text
3. Use data to describe climates
4. Factors affecting climate: latitude
5. Factors affecting climate: altitude
6. Factors affecting climate: distance from the ocean
7. Factors affecting climate: surface ocean currents

W. Astronomy

1. Earth's rotation and orbit
2. Analyze models of the Earth-Sun-Moon system
3. Constellations and the changing night sky
4. Identify phases of the Moon
5. Lunar eclipses
6. Identify constellations
7. Structure of the universe
8. Describe and classify galaxies (New!)

X. Units and measurement

1. Choose units of distance, mass and volume
2. Abbreviate time, length, speed and acceleration units
3. Abbreviate mass and volume units
4. Abbreviate force, energy and electricity units