

OVERVIEW

Science IDEAS Curriculum Plan

GRADE 3

MATTER (strand A)

Properties of Matter
Observing/measuring Matter
States of Matter
Changes of Matter
 Physical & Chemical

Nature of Science (strand H)

ENERGY (strand B)

Forms of Energy
Conservation of Energy
Thermal Energy
Light

Nature of Science (strand H)

PROCESSES OF LIFE (strand F)

Living vs Nonliving
Basic requirements for life
Classification of living organisms
Plants
 Characteristics
 Needs
 Structure
 Reproduction
Animals
 Characteristics
 Needs
 Structure
 Classification

Nature of Science (strand H)

LIVINGS INTERACT W/ THEIR ENVIRONMENT (strand G)

Living things depend on one another
Food Chains & Webs

Nature of Science (strand H)

GRADE 4

REVIEW MATTER

Properties, phases & changes

REVIEW ENERGY

Forms & conservation of energy
Thermal energy and Light

ADDITIONAL ENERGY

Sound

FORCE & MOTION (Strand C)

Newton's Laws
Gravity

Nature of Science (strand H)

PROCESSES THAT SHAPE

THE EARTH (strand D)

Water Cycle
Rocks & Minerals
 Rock Cycle/Plate Tectonics
 Classification/Formation
Forces that shape the land
 Erosion
 Earthquakes
 Land Structures
Fossils

Nature of Science (strand H)

EARTH & SPACE (strand E)

The Sun (stars)
Universe
Earth/Moon/Sun System
Phases of the Moon
Tides
Seasons
Solar System

Nature of Science (strand H)

PROCESSES OF LIFE (strand F)

REVIEW Animal structures & animal needs
Body Systems of Mammals
 Digestive
 Respiratory
 Circulatory
 Nervous
 Muscular
 Skeletal

Nature of Science (strand H)

GRADE 5

REVIEW MATTER

Properties, phases & changes

ADDITIONAL MATTER

Atomic Structure
Elements & Compounds
Solutions & Mixtures

REVIEW ENERGY

Forms & conservation of energy
Thermal, light and sound

Nature of Science (strand H)

FORCE & MOTION (strand C)

Describing Motion
Speed, velocity, acceleration
Newton's Laws
Types of Forces
 Gravity
 Friction
Work & Power
Potential vs Kinetic Energy
Simple Machines

Nature of Science (strand H)

PROCESSES THAT SHAPE

THE EARTH (strand D)

REVIEW Water Cycle
REVIEW Seasons
Climates

LIVINGS INTERACT W/ THEIR ENVIRONMENT (strand G)

Biomes
REVIEW Needs of plants & Animals
Ecosystems
Adaptations of plants & animals
Conservation of resources

Nature of Science (strand H)

CUMULATIVE REVIEW

Weather
Ocean Currents
Atmospheric Currents
 Hurricanes & Tornadoes
 Pressure Systems
Electricity
Light & Color

APPLICATION PROJECTS

Nature of Science (strand H)