

Scope and Sequence

Inspire Science is intentionally designed to gradually build knowledge and skills in all three dimensions. As students progress through the program, their knowledge builds from simpler concepts to more sophisticated ones. Learning progressions are specifically designed to build on prerequisite skills. For instance, students need to understand the water cycle before learning about how the environment is impacted by humans. In addition, modules are grouped into intuitive units so that related bundles of Performance Expectations may be explored together.

Grade 6 · Integrated

UNIT 1	LIFE: STRUCTURE & FUNCTION
MODULE	Cells and Life
LESSON	Exploring Life
LESSON	Cell Structure and Function
MODULE	Body Systems
LESSON	Levels of Organization
LESSON	Structure and Support
LESSON	Obtaining Energy and Removing Waste
LESSON	Moving Materials
LESSON	Control and Information Processing
UNIT 2	REPRODUCTION OF ORGANISMS
MODULE	Reproduction of Organisms
LESSON	Inheritance
LESSON	Types of Reproduction
LESSON	Reproduction and Growth of Animals
LESSON	Reproduction and Growth of Plants
UNIT 3	ENERGY IN THE ATMOSPHERE
MODULE	Energy and Matter
LESSON	Particles in Motion
LESSON	States of Matter
LESSON	Thermal Energy Transfers
LESSON	Thermal Energy Conductivity
MODULE	The Water Cycle
LESSON	Water in the Atmosphere
LESSON	Water on Earth's Surface
MODULE	Weather and Climate
LESSON	Solar Energy on Earth
LESSON	Atmospheric and Oceanic Circulation
LESSON	Weather Patterns
LESSON	Climates of Earth
UNIT 4	HUMAN IMPACT ON THE ENVIRONMENT
MODULE	Human Impact on the Environment
LESSON	Impact on Land
LESSON	Impact on Water
LESSON	Impact on the Atmosphere
LESSON	Impact on Climate



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UNIT 1	UNDERSTANDING MATTER
MODULE	Classification and States of Matter
LESSON	Energy and States of Matter
LESSON	Changes in Temperature
LESSON	Changes in Pressure
LESSON	Molecular Structure
MODULE	Matter: Properties and Changes
LESSON	Properties of Matter
LESSON	Property Changes in Chemical Reactions
LESSON	Energy Changes in Chemical Reactions
UNIT 2	THE CHANGING EARTH
MODULE	Dynamic Earth
LESSON	Moving Continents
LESSON	Development of a Theory
LESSON	Shaping Earth's Surface
LESSON	Changing Earth's Surface
LESSON	The Cycling of Earth's Materials
MODULE	Natural Hazards
LESSON	Earthquakes
LESSON	Volcanoes
LESSON	Severe Weather
UNIT 3	EARTH'S RESOURCES
MODULE	Distribution of Earth's Resources
LESSON	Natural Resources
LESSON	Distribution of Resources
LESSON	Depletion of Resources
MODULE	Materials Science
LESSON	Synthetic Technology
LESSON	Impacts of Synthetic Materials
UNIT 4	INTERACTIONS WITHIN ECOSYSTEMS
MODULE	Matter and Energy in Ecosystems
LESSON	Photosynthesis and Cellular Respiration
LESSON	Flow of Energy
LESSON	Cycling of Matter
MODULE	Dynamic Ecosystems
LESSON	Resources in Ecosystems
LESSON	Interactions Within Ecosystems
LESSON	Changing Ecosystems
MODULE	Biodiversity in Ecosystems
LESSON	Benefits of Biodiversity
LESSON	Maintaining Biodiversity

Grade 8 • Integrated

UNIT 1	CHANGE OVER TIME
MODULE	Geologic Time
LESSON	Analyzing the Rock and Fossil Records
LESSON	Building a Time Line
MODULE	Natural Selection and Adaptations
LESSON	How Traits Change
LESSON	The Theory of Evolution by Natural Selection
LESSON	Artificial Selection
MODULE	Evidence of Evolution
LESSON	Fossil Evidence of Evolution
LESSON	Biological Evidence of Evolution
UNIT 2	ENERGY AND MOTION
MODULE	Forces and Motion
LESSON	Position and Motion
LESSON	Force and Acceleration
LESSON	Force Pairs
LESSON	Gravitational Force
MODULE	Mechanical Energy
LESSON	Kinetic Energy
LESSON	Potential Energy
LESSON	Conservation of Energy
MODULE	Electromagnetic Forces
LESSON	Magnetic Forces
LESSON	Electric Forces
LESSON	Simple Circuits
LESSON	Electromagnetism
UNIT 3	UNDERSTANDING WAVES
MODULE	Introduction to Waves
LESSON	Wave Properties
LESSON	Mechanical Wave Interactions
MODULE	Light
LESSON	How Light Travels
LESSON	Light Reflection and Mirrors
LESSON	Light Refraction and Lenses
LESSON	Color of Light
MODULE	Information Technologies
LESSON	Communicating with Signals
LESSON	Modern Communication with Digital Signals
UNIT 4	HUMANS AND THEIR PLACE IN THE UNIVERSE
MODULE	Earth and Human Activity
LESSON	Human Population Trends
LESSON	People and the Environment
MODULE	The Sun-Earth-Moon System
LESSON	Earth's Motion Around the Sun
LESSON	Lunar Phases
LESSON	Eclipses
MODULE	Exploring the Universe
LESSON	Gravity and the Universe
LESSON	The Solar System