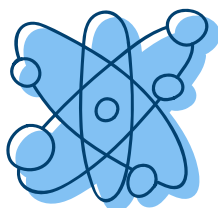


Science Techbook at a Glance

Program and Course Navigation Structure

Science Techbook is a comprehensive core elementary science curriculum. Concepts are vertically aligned across grade levels, with three-dimensional learning that authentically integrates Disciplinary Core Ideas, Science and Engineering Practices, and Crosscutting Concepts. This structure ensures students build knowledge and skills within and across units for deeper understanding and engagement.



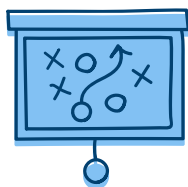
Course

A comprehensive, year-long course aligned to elementary grade-level standards, structured into four units addressing Physical, Life, and Earth and Space science — with some units designed to integrate multiple disciplines.



Unit

Each unit organizes related standards into a coherent framework, setting the stage for concepts that bring phenomena-driven learning to life.



Concept

Concepts follow a phenomena-based storyline and scaffold key science ideas while integrating the three dimensions through purposeful learning progressions.



Lesson

Lessons follow the 5E model (Engage, Explore, Explain, Elaborate, Evaluate) with clear objectives, planning tools, and 20-minute segments for flexible instruction.

Science Techbook Scope & Sequence

Grade K

Unit 1 Sunlight

Sunlight and Warmth
Sunlight Designs

Unit 2 Weather

Weather All Around Us
Watching the Weather

Unit 3 Motion

Pushes and Pulls
Motion Designs

Unit 4 Plants and Animals on Earth

Plant and Animal Needs
Plants, Animals, and Places
Living Things Make Changes
Taking Care of Earth

Grade 3

Unit 1 Force and Motion

Patterns of Motion
Balanced and Unbalanced Forces
Electric and Magnetic Forces
Magnetic Solutions

Unit 2 Life Cycles and Traits of Organisms

Life Cycles
Inherited Traits
Environmental Traits
Traits and Survival

Unit 3 The Survival of Organisms in Environments

Animal Groups
Surviving in Environments
Organisms Long Ago
Changes in Environments

Unit 4 Weather and Climate

Weather Conditions
Climates Around the World
Weather Hazard Solutions

Grade 1

Unit 1 Light and Sound

Sounds and Vibrations
Light

Unit 2 Materials and Tools

Light and Materials
Communication Tools

Unit 3 Patterns in the Sky

Sun, Moon, and Stars
Daylight Patterns

Unit 4 Living Things

Plant and Animal Traits
Plant and Animal Structures
Behaviors and Survival

Grade 4

Unit 1 Energy and Motion

Energy and Speed
Energy and Colliding Objects

Unit 2 Energy and Information Transfer

Transfer of Energy
Investigating Energy Transfer
Information Transfer

Unit 3 Earth's Changing Surface

Earth's Features
Waves on Earth
Weathering and Erosion
Earth's Changes Over Time
Natural Resources

Unit 4 Structures and Functions of Organisms

Structures and Functions
Eyes and Reflection
Senses and Processing

Grade 2

Unit 1 Materials and Their Properties

Investigating Properties of Matter
Heating and Cooling Properties
Testing Materials
Building with Materials

Unit 2 Habitats on Earth

Water on Earth
Mapping Land and Water
Habitats

Unit 3 Changes on Earth

Earth Events
Wind and Water Solutions

Unit 4 Plants

Plant Needs
Plant Helpers

Grade 5

Unit 1 Matter and Its Interactions

Measuring Properties of Matter
Conservation of Matter
Mixing Substances
Models of Matter

Unit 2 Matter and Energy in Ecosystems

Plant Growth
Food Webs
Energy and Organisms

Unit 3 Patterns of Earth and the Solar System

Sun and Stars
Patterns in the Sky
Gravity

Unit 4 Earth's Systems and Resources

Interacting Earth Systems
Earth's Water
Caring for Earth's Resources