

Lesson Sequence Guide

The First & Second Great Lessons

Properties of Matter

- Combining & Separating
- Crystallization
- Different Properties at Different Temperatures
- Particle Behavior
- Force Direction
- Viscous + Fluid & Rigid, Elastic, Plastic
- Density
- Air Pressure

Composition of Earth

- Composition of Earth
- Layers of Earth
- Movement on Earth's Surface
- Effects of Moving Tectonic Plates

Earth, the Sun, and Our Solar System

- Our Solar System and Planetary Movement
- Earth and Sun
- When Light Hits a Sphere
- Earth's Axis Tilt - Seasons & Shadows
- Earth's Axis Tilt - Measuring the Tilt of Earth's Axis
- Earth's Axis Tilt - Climate Zones

Work of Water

- Intro to the Work of Water
- The River
- Parts of a River
- More River Features
- The Water Cycle

Erosion

- Sedimentation
- Erosion, Valleys, and Canyons
- How to Stop Erosion
- Erosion from Rainfall
- Coastal Erosion and Ocean Weathering
- How to Crack a Boulder

Work of Air

- Foundations for the Work of Air
- Earth's Blanket
- Where Does the Wind Come From?

Botany

- Plant Nature Walk
- Parts of a Plant
- Needs of the Plant
- The Leaf Food Factory
- Can Plants Move?
- Parts of a Leaf

Anatomy

- The Digestive System

Zoology

- Animal Nature Walk
- Animal Research

Invisible Forces

- Magnetism
- Magnetic Fields and Navigation
- Friction
- Fluid Resistance and Drag
- Gravity and Weight

STEM Beyond

- The Scientific Method and Lab Safety
- What Is Sound?
- How Did Humans Discover Fire?
- The Story of the Elements