

Lesson Sequence Guide

Lower Elementary
(ages 6-9)

Upper Elementary
(ages 9-12)

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

The Work of Water

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

The Work of Water: Erosion

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

The Work of Air

Foundations for the Work of Air

Earth's Blanket
Where Does the Wind Come From?

Life Science

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

STEM Lessons Beyond the Albums

The Scientific Method and Lab Safety

How Did Humans Discover Fire?
The Story of the Elements