

# 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?  
Parts of a Leaf

### STEM Lessons Beyond the Albums

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

### Invisible Forces

Magnetism  
Friction  
Fluid Resistance and Drag