

Lesson Sequence Guide

Lower Elementary (ages 6-9)

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
 Earth's Layers
 Earth's Crust
 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

Zoology

Animal Nature Walk
 Animal Research

Anatomy

Muscles & Bones
 The Digestive System
 Heart & Lungs
 Senses and Information Processing
 The Nervous System
 Rest and Relaxation

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