

EARTH SCIENCE

Wednesdays, January 28 - April 29 (no class February 18, Apr 8; 12 weeks)

11:00am-12:15pm

Ages 8-10

Embark on a hands-on adventure to discover how our planet works! Students become young Earth scientists as they explore maps, model Earth's layers, simulate the rock and water cycles, and uncover how landscapes, weather, and ecosystems are formed. Each week brings new experiments and discoveries that reveal the amazing systems shaping life on Earth. All lab costs are included in the registration fee.

Instructor: Peyton White, MSc

Location: Science Center (suite 5)

Course fee: \$220 OR \$20/lab

10% sibling discount

Register for full semester or individual labs.

LAB SCHEDULE:

MAPPING - Wednesday, January 28

Students take a look at the Earth's surface and its continents as they learn how to read different kinds of maps.

LAYERS OF THE EARTH - Wednesday, February 4

Students learn about the layers of rocks, metals, and magma that make up the Earth as they create a model of our planet.

OUR ATMOSPHERE - Wednesday, February 11

This week, students turn their eyes to the sky! We learn about earth's atmosphere, its layers of air, and how it gives us life.

THE ROCK CYCLE - Wednesday, February 25

We simulate the rock cycle with a heat and pressure experiment to demonstrate how each rock type could transform into a different type of rock.

THE WATER CYCLE - Wednesday, March 4

Students learn about Earth's most precious resource: water! We investigate how it is constantly recycled by natural processes and how it changes between its liquid, solid, and gaseous forms.

EARTH PROCESSES - Wednesday, March 11

This week, we see how Earth's forces have sculpted our landscape by experimenting with the processes of erosion, deposition, and weathering.

PLATE TECTONICS - Wednesday, March 18

We explore the giant puzzle pieces that make up the Earth's crust and learn about what happens along the boundaries where they meet.

THE FOSSIL RECORD - Wednesday, March 25

Students discover the process of fossilization and how scientists use sedimentary rocks to read the story of the Earth's past.

METEOROLOGY & CLIMATE - Wednesday, April 1

This week, we learn the difference between weather and climate, and we explore how both affect the world around us.

OCEANOGRAPHY - Wednesday, April 15

Over 70% of Earth is covered in water, and over 95% of that water is salty! This week, we learn about our vast oceans and how sand forms.

EARTH'S RESOURCES - Wednesday, April 22

Students learn about Earth's resources, discuss what makes them limited, and look for sustainable solutions.

ECOLOGY & BIOMES - Wednesday, April 29

In this final week, we explore how the Earth's climate and geography support endless ecosystems of interconnected life.