

EARTH AND SPACE SCIENCE

Thursdays, January 27 -April 28 (no class February 17, March 17, or April 7; 11 weeks)

9:30am-10:45am

Ages 8-10

Students explore Earth and space through hands-on experiments and activities, including modeling of processes that affect the surface of our planet, engineering structures to withstand the forces of an earthquake, investigating the size and movement of the planets in our solar system, and more. All lab costs are included in registration fee.

Instructor: Nanette Lenderman, MEd

Location: Discover Science Center Peachtree City

Course fee: \$200 OR \$20/lab

10% off sibling discount

Register for full semester or individual labs.

LAB SCHEDULE:

The Solar System – Thursday, January 27

Students explore our solar system as they create a to-scale model of our planets, and learn special features of each one.

Earth's Layers – Thursday, February 3

This week, we look inside our planet to create a model of the Earth's layers, study how its surface moves, and learn why the Earth acts like a magnet.

Earth's Atmosphere – Thursday, February 10

Students investigate and build the layers of Earth's atmosphere, discover why it is harder to breathe on top of mountains, and where space starts.

Weathering and Erosion – Thursday, February 24

We play with sand and water to study the processes of weathering and erosion to demonstrate how the Earth's surface changes over time.

Rock Types – Thursday, March 3

Students investigate sedimentary, metamorphic and igneous rocks, and make their own examples of each as they learn about the rock cycle.

**Earthquakes** – Thursday, March 10

Learn what causes earthquakes and why they do not occur everywhere, and engineer a structure that can withstand the forces of an earthquake.

Oceans – Thursday, March 24

We study the oceans of our planet today, and investigate how deep they are and how water moves around the Earth.

The Water Cycle – Thursday, March 31

Students study and model the water cycle to investigate how water gets into the clouds and where it goes once it rains.

Meteors, Asteroids and Comets – Thursday, April 14

Students categorize the different types of objects flying through space, discover which ones come into our atmosphere and model a comet.

The Moon – Thursday, April 21

We study the moon in lab today to investigate why we only see certain parts of the moon at night, why it looks and learn about the moon's effects on our planet.

Stars – Thursday, April 28

Students learn about stars, including our sun, as we learn about constellations and conduct experiments with sunlight.

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