



EARTH AND SPACE SCIENCE

Thursdays, September 16-December 16 (no class October 14, November 25; 12 weeks)

11:00am-12:15pm

Ages 6-8

Kids explore the outer reaches of the universe to the bottom of the oceans as we investigate processes that affect the Earth's surface, explore the celestial bodies in our solar system, and learn how we study ocean and space. All lab costs are included in registration fee.

Instructor: Candra Umunna, BSc

Location: Science Center (suite 5)

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

Early registration (10% off) through August 6

10% sibling discount beginning August 7

Register for full semester or individual labs.

LAB SCHEDULE:

Geology and Rocks – Thursday, September 16

Kids are introduced to the science of Geology as we learn the processes involved in the rock cycle and how rocks are formed and identified.

Minerals and Geodes – Thursday, September 23

Students become geologists as they investigate minerals and how they are formed, and crack open their own geode to discover the crystals inside.

Earth's Layers – Thursday, September 30

We create a model of the Earth to learn about its layers, why volcanoes form and how the surface of our planet changes over time.

Magnetic Fields – Thursday, October 7

Students study the three magnetic elements of the periodic table, and experiment with ceramic magnets and a compass to learn how (any why) the Earth is a magnet.



Ocean Exploration – Thursday, October 21

We investigate how scientists study the depths of our oceans, what landforms are found on the bottom and watch footage of the unique creatures observed with underwater submersibles.

Atmosphere and Astronomy – Thursday, October 28

Kids adventure into astronomy as we create a model of the Earth's atmosphere, learn what happens in each layer, and explore how our atmosphere is different than on other planets.

Planets – Thursday, November 4

We review the special characteristics of each planet in our solar system as we create a scale-model to determine how far away the planets are from the sun.

The Moon – Thursday, November 11

Students explore our moon and its phases as well as conduct an experiment investigating how craters are formed on its surface.

Asteroids, Meteors and Comets – Thursday, November 18

We learn the differences among asteroids, meteors and comets, explore the asteroid belt in our solar system, and create a model of a comet.

The Sun – Thursday, December 2

Kids study the science of light as they learn how light is formed on the sun, investigate the electromagnetic spectrum and conduct experiments to test for UV light.

Stars and Constellations – Thursday, December 9

This week, we focus on stars, how far apart they are from each other, why we can identify different constellations and how they can be used for navigating at night.

Exploring Mars – Thursday, December 16

Inspired by the Perseverance landing on Mars, kids investigate gravity, force and motion as they are challenged to design and build their own Mars rover that can withstand a tricky landing.