



ASTRONOMY

Wednesdays, September 16-December 16

No class October 14 or November 25

9:30am-11:00am

Ages 11-14

Students study celestial objects and astronomical phenomena by utilizing mathematics, physics, and chemistry to explain how planets, moons, stars, nebulae, galaxies, and comets interact with one another.

Instructor: Candra Umunna

Location: STEM Lab (suite 21)

Full Series - \$275 OR \$25/lab

10% off sibling discount

LAB SCHEDULE:

PLANETS

Wednesday, September 16

9:30am-11:00am

Students explore the eight planets of our solar system, learn about dwarf planets, and investigate what gravity has to do with different orbits.

CELESTIAL BODIES

Wednesday, September 23

9:30am-11:00am

This week, we learn about celestial objects and other forms of space debris that are a part of our solar system.

MOON CRATERS

Wednesday, September 30

9:30am-11:00am

Kids learn how the moon's surface got its characteristic appearance, and explore why there is no weather on the moon.

STARS & LIGHT

Wednesday, October 7

9:30am-11:00am

Students examine a star's life cycle, experiment with properties of light, and learn how to find specific constellations in the night sky.

BLACK HOLES

Wednesday, October 21

9:30am-11:00am

We investigate the center of our galaxies, and distinguish between myths and truths about black holes and other dimensions.

ATMOSPHERE

Wednesday, October 28

9:30am-11:00am

Students learn about the different layers of the atmosphere and how it can affect a planet's weather and interactions with space.

GOLDBLOCKS PLANETS

Wednesday, November 4

9:30am-11:00am

Today, we discuss the characteristics of Earth that enable life to exist here, and what criteria can make other planets home to various forms of life.

MOONS & SATELLITES

Wednesday, November 11

9:30am-11:00am

Students learn about the moon and other satellites, both natural and man-made, review moon phases, and study how moons affect the planets they orbit.

TELESCOPES & LONG EXPOSURES

Wednesday, November 18

9:30am-11:00am

We investigate astrophotography and imaging and how we can manipulate light to see objects in the dark and light years away.

ECLIPSES

Wednesday, December 2

9:30am-11:00am

Students learn about the different types of eclipses as well as the history, myths, and culture around them.

ROCKETS

Wednesday, December 9

9:30am-11:00am

We study the physical aspects and parameters of different rockets, and learn about their aerodynamic characteristics as we design our own rockets.



DARK MATTER

Wednesday, December 16

9:30am-11:00am

Students learn why space has so much space, and investigate theories as to why the universe is expanding and what it may be expanding into.

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