



EXPLORING THE SOLAR SYSTEM

4th and 6th Grades

DESCRIPTION

All students will participate in a kinetic activity in the lab that will examine the orbital paths of the inner planets. Students will learn the order of the planets, explain why planets and constellations appear to move backwards at times, understand how planet size affects the number of moons, and identify the phases of the moon as well as model its synchronous rotation.

FIELD TRIPS FOR ALL

Program will run for approximately 1.5 hours.

30 MINUTES – PLANETARIUM SHOW

- *To Worlds Beyond*

30 MINUTES - LAB

- Moon phase activity using models and hands-on activity
- A demonstration of the movement of the Earth and Moon around the Sun

30 MINUTES - GALLERY TIME

- Participate in a solar system rope activity which will demonstrate the distances between the planets as well as a discussion regarding planet composition

TAKE HOME ITEMS

- Moon phase bookmark

VIRTUAL FIELD TRIP PLUS

Program will run for approximately 1 hour.

30 MINUTES – VIRTUAL CLASS

- Discuss planets of the solar system, the Moon and its orbit around Earth, and Moon phases
- Make a solar system in your classroom

30 MINUTES - Q & A SESSION

- Demonstration of the movement of the Earth and Moon around the Sun and how that influences the phases of the moon

CURRICULUM PACKET

- Vocabulary Crossword & Word Search
- Make a Kinetic Solar System Instructions
- Moon Book Marks
- Make a Pocket Solar System
- Pictures of Sun, Inner Planets, and Four Constellations
- Pre-recorded Video

REVISED 09.16.20

GEORGIA STANDARDS OF EXCELLENCE:
S4E1d and S4E2abc, S6E1c and S6E2abc