



SOLAR SYSTEM EXPLORER

Grades 1 – 5 | 60 Minutes

Program Overview

Description

Take a guided trip through the solar system with the experts in our planetarium and explore the planets in detail. We will compare and contrast each object with Earth to discover Earth's unique qualities. Students will learn all about the objects in our solar system and its place in the galaxy.

Adult chaperones recommended: 2

Content Standards

Subject	Gr	Ohio Department of Education Standards
Earth/Space	1	The sun is the principal source of energy.
Earth/Space	2	The atmosphere is made up of air. Water is present in the air.
Earth/Space	3	Earth's nonliving resources have specific properties.
Earth/Space	4	The surface of Earth changes due to weathering.
Earth/Space	5	The solar system includes the Sun and all celestial bodies that orbit the Sun. Each planet in the solar system has unique characteristics. The Sun is one of many stars that exist in the universe.

Vocabulary

asteroid	orbit
atmosphere	planet
dwarf planet	probe
erosion	solar system
gravity	star
moon	weather

Books we recommend

- Earth by Adele Richardson. Capstone Press, 2008.
- Earth by Alexis Roumanis. AV2, 2016.
- Earth: No Place Like Home by Joyce Markovics. Bearport Publishing, 2015.

Post-Trip Activities

- Lower grades: Build or draw a scale model of the solar system using everyday materials or receipt paper (pocket solar system).
- Upper grades: Choose a major planet. Plan and build a scaled model that can demonstrate the planet size, rotation, and orbit in relationship to the sun and the Earth. Conduct the demonstration (with explanation) to the class.

Other Resources

Solar System music video: <https://youtu.be/PCxjuDePdCI>

NASA Solar system in detail: <https://solarsystem.nasa.gov/>