



# EXPLORING THE SOLAR SYSTEM

## 6th Grade

### DESCRIPTION

Take a tour of the solar system in the planetarium show, *Oasis in Space*. This show explores the planets, moons, and some of the smaller objects in the solar system. 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. In the Millar Science in Motion gallery, students will explore the space portion of the gallery and learn about the Apollo missions to our moon in a scavenger hunt. Program lasts for 2 hours.

#### 30 MINUTES – PLANETARIUM SHOW

- *Oasis in Space*

#### 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

- A demonstration using models of how we got to the Moon and back
- Scavenger hunt emphasizing space exploration and how we got to the Moon

#### 30 MINUTES - STORE

- Visit the Store and the Foucault Pendulum

#### TAKE HOME ITEMS

- Moon phase bookmark