

# **STARLAB – THE PORTABLE PLANETARIUM**

## **OUTREACH PRE-VISIT PAGE** (Grades K-2) 45 minutes (Grades 3-8) 60 minutes

Arizona Science Center will be arriving no later than 30 minutes before the start of your program(s). **Starlab** is an inflatable, portable planetarium that is used to introduce students to astronomy and covers:

- Sun is closest star
- Characteristics of stars (color, temperature, size, brightness, name)
- Constellations with Greek mythology based stories
- Other things visible in the night sky (Moon and certain planets)

### **PROGRAM NEEDS**

- Requires 2 teachers/adult helpers to remain with group both inside and outside the Starlab (please prepare young audiences for the darkness inside the dome)
- Limited to 30 participants
- Requires a space that is at least 25 ft. by 25 ft. and a ceiling at least 12 feet high and free from low lying fixtures
- Requires easy access to 2 electrical outlets
- If multiple programs are scheduled at your location, it is ideal that the Starlab remain set up for the duration of the programs

### **SCIENCE STANDARDS**

**Grade 1:** S6C2PO1: Identify evidence that the Sun is the natural source of heat and light on the Earth (e.g., warm surfaces, shadows, shade).

S6C2PO2: Compare celestial objects (e.g., Sun, Moon, stars) and transient objects in the sky (e.g., clouds, birds, airplanes, contrails).

S6C2PO3: Describe observable changes that occur in the sky, (e.g., clouds forming and moving, the position of the Moon).

**Grade 5:** S6C3PO1: Identify the known planets of the solar system.

S6C3PO2: Describe the distinguishing characteristics of the known planets in the solar system.

S6C3PO3: Describe various objects in the sky (e.g., asteroids, comets, stars, meteors/shooting stars).

S6C3PO4: Describe the change in position and motion of the following objects in the sky over time: real and apparent motion

S6C3PO5: Explain the apparent motion of the Sun and stars.

**Grade 7:** S6C3PO5. Identify the following major constellations visible (seasonally) from the Northern Hemisphere: Orion, Ursa Major, Cygnus, Scorpius, Cassiopeia

