OCMBOCES

Committed to Your Success

Planetarium Program Guide

The OCM BOCES Science Center Planetarium Program brings the magic of the stars directly to your school, during the day! Our planetarium is a state of the art, digital experience inside of an inflatable planetarium dome. Planetarium presentations last approximately 40 minutes, and allow for students in all grade levels to explore the night sky from all around the globe, and throughout history (Yes…the planetarium can go back in time!).

Below you will find a list of programs for different grade levels. If you don't see something that suits your needs please let us know so that we can work with you to develop a program.

K-5 Programs:

- Night and Day
    - Illustrates the causes for day and night, including Earth's rotation makes day and night possible.
- Going Through a Phase
    - Illustrates and describes how the changing positions of the Earth, Moon, and Sun cause lunar phases.
- Location, Location, Location
    - Discusses how we can use the stars to find our location here on Earth.
- Greek Myths in the Sky
    - Focuses on the images that the people of Ancient Greece found in the sky.

6-12 Programs:

- A Change of Seasons
    - Focuses on Earth's tilt and revolution, along with the amount of insolation in different seasons.
- Now You See It
    - Focuses on Solar and Lunar eclipses and their geometry.
- Welcome to the Neighborhood-Overview
    - Focuses on the solar system and the bodies that make it up, including planets, asteroids, and the Kuiper Belt.

- Welcome to the Neighborhood-The Planets
    - Focuses on the differences between the planets in our solar system.
- Star Light, Star Bright
    - Focuses on star life cycles, distance, apparent brightness and luminosity.
- A Calendar in the Stars
    - Focuses on the constellations that are observable at different times of the year, along with circumpolar constellations.
- Moving Out
    - Focuses on the modern view of the solar system and its motions.
- Big Macs
    - Focuses on the smaller bodies in the solar system, like asteroids, comets, and meteors.

Movies

- Losing the Dark (6:25) All Grades
    - Why can't we see the stars from where we are sometimes? This video discusses light pollution and its cost. What can we do to be energy efficient, neighborhood friendly, and preserve the dark sky?
- From Earth to the Universe (31:00) 5th-HS
    - Patterns led to the early civilizations calendar. Constellations - navigation skills
    - Astronomers and history of our ideas over time.
    - Telescope history
- Two Small Pieces of Glass (22:45) 4th-HS
    - Telescope - connections to eyes seeing in the dark
    - Reflecting telescopes (mirrors, lights, lenses, etc)
- Back to the Moon for Good (24:40) 6th-HS
    - The space race that led to the lunar landing, and how humans can get back to the moon.
- Search for the Edge of the Solar System (28:34) 4th-HS
- Magnetism: Defending the Earth, Defining the Cosmos (23:32) HS
    - Explores Earth's magnetic field and how it safeguards the planet.

Questions? Please contact Chris Leece, OCM BOCES Stem Coordinator, at cleece@ocmboces.org or 315-433-2661.

Ready to schedule? Please contact our Science Center at mst@ocmboces.org or 315-433-2671.