**Planetarium/Star Show: The Planets**

**Description:**
The Planets is a visually stunning multimedia presentation that takes us on an exploration of our Solar System, revealing our current understanding of the planets. Through the magic of planetarium technology we visit each planet in order from the Sun; beginning with Mercury and continuing through Neptune. Next, we encounter Pluto and its companions and press quickly on to the Kuiper Belt. On considering these frozen worlds, we speculate the existence of tens of thousands more icy dwarfs circling beyond Pluto in far-flung eccentric orbits and perhaps trillions more in the vast Oort Cloud at the very distant fringe of the solar system.

Each show includes an introduction to the night sky. Sky tours highlight the seasonal constellations and interesting deep sky objects you can practice finding on your own, equipped only with a modest pair of binoculars.

The show is narrated by Kate Mulgrew, best known for her role as Captain Janeway on the television series Star Trek: Voyager. In the TV show, she led her crew on a great voyage of discovery across the galaxy. Now, in The Planets she guides you on a space voyage of your own.

The memorable music score was created by veteran planetarium composer Jonn Serrie by blending his characteristic ambient sounds with stylistic elements from Holst's The Planets.

The show includes a live customized Digistar tour of the current evening sky and basic astronomy lessons.

**Basic Information:**
- **Age Level:** General Audience (Grades 8-12)
- **Maximum participants per session:** 210
- **Location:** Planetarium Theater
- **Running time:** 40 minutes (add 20 min. for Star Walk)
Sunshine State Standards:

8th Grade:

Big Idea #5 - The Earth in Space and Time

- SC.8.E.5.1: Recognize that there are enormous distances between objects in space and apply our knowledge of light and space travel to understand this distance.
- SC.8.E.5.3: Distinguish the hierarchical relationships between planets and other astronomical bodies relative to solar system, galaxy, and universe, including distance, size, and composition.
- SC.8.E.5.7: Compare and contrast the properties of objects in the Solar System including the Sun, planets, and moons to those of Earth, such as gravitational force, distance from the Sun, speed, movement, temperature, and atmospheric conditions.
- SC.8.E.5.10: Assess how technology is essential to science for such purposes as access to outer space and other remote locations, sample collection, measurement, data collection and storage, computation, and communication of information.
- SC.8.E.5.11: Identify and compare characteristics of the electromagnetic spectrum such as wavelength, frequency, use, and hazards and recognize its application to an understanding of planetary images and satellite photographs.

9th – 12th Grade:

Big Idea #5 - The Earth in Space and Time

- SC.912.E.5.5: Explain the formation of planetary systems based on our knowledge of our Solar System and apply this knowledge to newly discovered planetary systems.
- SC.912.E.5.6: Develop logical connections through physical principles, including Kepler’s and Newton’s Laws about the relationships and the effects of Earth, Moon, and Sun on each other.
- SC.912.E.5.8: Connect the concepts of radiation and the electromagnetic spectrum to the use of historical and newly-developed observational tools.