

Challenger Learning Center

Digital Dome Mobile Planetarium

Program Information

Sun, Moon and Stars:

Step into the digital dome and explore the sun's daily journey across the sky. Observe and classify bright and faint stars, identify common constellation shapes, and discover more about the universe around us! This engaging show lasts just under 30 minutes and is ideal for children ages 5 to 8.

Mars: The Ultimate Voyage:

Ever wondered what it will take for astronauts to travel to the Moon, Mars, and beyond? On this long journey, what challenges will astronauts face? How will they stay motivated and healthy on their spacecraft so far away from Earth? The new, Bell original planetarium show Mars: The Ultimate Voyage, explores these questions and more. This show lasts just under 30 minutes and is ideal for 5th grade and older.

Tour of the Solar System: Audio Universe:

Experience the Solar System like never before—aboard a spacecraft that transforms space into sound! In this immersive 35-minute show, journey to the European Southern Observatory's Very Large Telescope (VLT) to explore the night sky before launching into space to visit the Earth, Moon, Sun, and planets. Unlike traditional planetarium shows, sound takes center stage. Celestial objects are not only seen in stunning 4K resolution but also heard, allowing audiences to listen to stars appear and planets orbit around them. Designed for all ages.

Unveiling the Invisible Universe:

For thousands of years, humans observed the light coming from the night sky with their eyes. In the beginning of the 17th century, the invention of the telescope by Galileo revolutionized our knowledge of the Universe. Finally, in the 20th century with the advent of rockets, it became possible to go above the earth's atmosphere and observe X-ray and gamma-ray radiation which are the marks of the hot and violent Universe. However, it is not only light that can give us information about the cosmos. Neutrinos and cosmic rays also provide vital information. Finally, the detection by the LIGO experiment of gravitational waves from two merging black holes opened a new window in astrophysics. This video presents images of the cosmos as revealed by all these different messengers.

The Sun, Our Living Star

In just under 30 minutes, *The Sun, Our Living Star* reveals the impact our star has on every aspect of our lives here on Earth. Explore the Sun's role in allowing and maintaining life, from photosynthesis to humanity. Discover how the Sun dictates our days, seasons and years. Delve into the history of the Sun's impact on human religion and culture. Learn about the Sun's dynamic nature — what appears as a flat disk in the sky is in fact a violent and evolving celestial body, burning 600 million tons of hydrogen every second. *The Sun, Our Living Star* allows viewers to experience the Sun in a new way, with never-before-seen images of its turbulent surface, revealing its power and variability in breathtaking detail.

From Earth to the Universe V2:

This stunning, 30-minute voyage through time and space conveys, through an arresting combination of sights and sounds, the Universe revealed to us by science. Directed by the young Greek filmmaker Theofanis N. Matsopoulos, and featuring a sweeping soundtrack from Norwegian composer Johan B. Monell, viewers can revel in the splendor of the various worlds in the Solar System and the ferocity of the scorching Sun. *From Earth to the Universe* then leaves our home to take the audience out to the colorful birthplaces and burial grounds of stars, and still further out, beyond the Milky Way, to the unimaginable immensity of myriads of galaxies.