

Secondary Grades **Gr 8-12** **SCHOOL PROGRAMS**

Physics, biology, chemistry, and life sciences all have a place in space! Choose a Groundstation Canada Theatre demonstration and a Planetarium show.

PROGRAM A: \$27.90 PER STUDENT | ABOUT 3.5 HOURS

- PICK TWO PLANETARIUM SHOWS: INDIGENOUS ASTRONOMY / DREAMS OF THE STARS / BIG ASTRONOMY / PHANTOM OF THE UNIVERSE
- GROUNDSTATION CANADA: COSMIC GLUE / PLANET HUNTERS / COLOUR OF FIRE / SPACE IS A DANGEROUS PLACE
- COSMIC COURTYARD EXHIBIT SPACE

PROGRAM B: \$24.40 PER STUDENT | ABOUT 3 HOURS

- PLANETARIUM SHOW: INDIGENOUS ASTRONOMY / DREAMS OF THE STARS / BIG ASTRONOMY / PHANTOM OF THE UNIVERSE
- PICK TWO GROUNDSTATION CANADA: COSMIC GLUE / PLANET HUNTERS / COLOUR OF FIRE / SPACE IS A DANGEROUS PLACE
- COSMIC COURTYARD EXHIBIT SPACE

PROGRAM C: \$17.70 PER PERSON | ABOUT 2.5 HOURS

- PLANETARIUM SHOW: INDIGENOUS ASTRONOMY / DREAMS OF THE STARS / BIG ASTRONOMY / PHANTOM OF THE UNIVERSE
- GROUNDSTATION CANADA: COSMIC GLUE / PLANET HUNTERS / COLOUR OF FIRE / SPACE IS A DANGEROUS PLACE
- COSMIC COURTYARD EXHIBIT SPACE



OUR SPACE, SHOWS, AND WORKSHOPS

A thick, horizontal blue brushstroke underline.

COSMIC COURTYARD:

Visit our space-themed, hands-on exhibit space. Students can enjoy a range of activities like Star Stuff, morphing into an alien, touching a Moon rock, trying to lift a meteorite.

PLANETARIUM SHOWS

One Sky Project: Indigenous Astronomy

This collection of three short films made for the One Sky Project features Indigenous perspectives of astronomy, space, time and navigation that have been inspiring minds for millennia.

Thunderbird: The sky is a powerful tool for measuring time, and for the Diné, or Navajo people, the Thunderbird transcends space and time, revealing the passage of seasons and connecting earth and sky.

Celestial Canoe: A First People of what is now northern Canada, the Innu, watched the slow turn of a canoe in the sky mirroring the change in seasons on land. This celestial canoe guided them through a particularly challenging part of the year.

Hawaiian Wayfinders: Hear from a Hawaiian navigator as she describes how the sky provides a compass and calendar for the oceanic people whose voyages connected islands throughout the Pacific Ocean.

PLANETARIUM SHOWS

Phantom of the Universe: The Hunt for Dark Matter

Discover more about dark matter, from the Big Bang, to the theorizing of dark matter's existence, to its anticipated discovery at the Large Hadron Collider. Finally, learn about the role of scientists associated with Vancouver-based TRIUMF in current scientific break-throughs.

One Sky Project: Dreams of the Stars

This collection of three short films made for the One Sky Project features Greek, Indian and Japanese perspectives of astronomy, history and mythology and how different cultures looking up into the night sky see different stories in the stars and new ways to study them.

The Forge of Artemis: In ancient Greece, Orion was a mighty but not particularly popular hunter, but his constellation shines brightly a familiar shape to people around the world. Why did the goddess Artemis immortalize him in the sky?

The Samurai and the Stars: For many, the stars offer solace and comfort. For our Japanese narrator, images in the sky even the colors of the stars bring back memories of music, history, and childhood.

Jai Singh's Dream: Amid the political chaos of 18th-century India, a great ruler brought the order of the skies down to earth. His giant instruments allowed for precise measurements of stars, planets, and the passage of time and his observatories still stand today!

Big Astronomy

People, Places, Discoveries explores three observatories located in Chile, at extreme and remote places. With its high, dry, and dark sites, Chile is one of the best places in the world for observational astronomy. The show gives examples of the multitude of STEM careers needed to keep the great observatories working, giving us new views of the universe and new data for astronomical science! The show is narrated by Barbara Rojas-Ayala, a Chilean astronomer.



PLANETARIUM SHOWS

Worlds of Ice

Worlds of Ice invites us on a journey to the farthest reaches of the solar system, travelling through the many dimensions of ice—from the territories of the Arctic to a scientific complex nestled under the South Pole. We experience it all immersed in a kaleidoscopic igloo from which we emerge utterly dazzled by the chronicles of an icy wonderland, to which Beatrice Deer, a popular figure of Inuit culture, has lent her unique voice.

GROUNDSTATION CANADA SHOWS

Planet Hunters

Discover more about planet hunting techniques astronomers use and their quest to find signs of life in the universe.

Colour of Fire

Polaris, our North Star, is made mostly of hydrogen. Have you ever wondered how astronomers obtain such detailed information about stars which are so far away? This blazing 20-minute presentation demonstrates the use of spectroscopy and how it applies to astronomy.

Cosmic Glue

Hold onto your seats! We'll discuss Newton's and Einstein's perspectives on gravity and how astronomers use gravity to study the universe.

Space is a Dangerous Place

Space has many hazards. From wild temperature swings to speeding micrometeorites, humans have had to face many challenges. Learn about how space is a dangerous place and how scientists, engineers, and astronauts deal with these many risks.