2026
-
2027

INTERMEDIATE GRADE

Take learning beyond the classroom, and into the cosmos!

Looking for an engaging way to get your students excited about science? Our in-person school field trips connect hands-on experiences with the BC Curriculum, helping students explore space science through observation, questioning and discovery.

H.R. MACMILLAN SPACE CENTRE

THE CORE BUNDLE

PLANETARIUM SHOW

LIVE DEMO STAGE

GALLERY EXHIBITS

** Minimum group size: 15 students*

PLANETARIUM SHOW

Surfing the Solar System

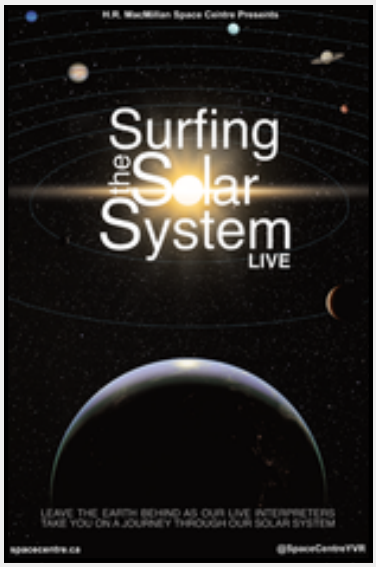
See the solar system as you have never seen it before – leave Earth behind to tour some of the most intriguing destinations in our solar system and find out more about some of the latest discoveries about our neighbouring planets. You will even have a chance to see Earth from the perspective of astronauts on the International Space Station. Narrated live by our Interpreters!

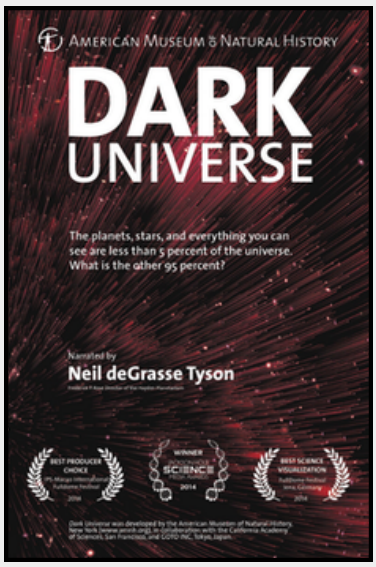
Exo: Are we alone? (2026)

Humankind has always sought to understand the mysteries of the Universe and speculated about the possibility of extraterrestrial life. Today we know of thousands of exoplanets planets located outside our Solar System that offer valuable information about our own planet, its origins and life on Earth. We're on the cusp of making some fascinating discoveries. But how will they change our lives?

Neil deGrasse Tyson: Dark Universe

The award-winning space show Dark Universe celebrates the pivotal discoveries that have led to greater knowledge of the universe and our place in it. Narrated by Neil deGrasse Tyson, highlights of Dark Universe include the Milky Way galaxy spangled with exploding supernovas, novel renderings of phenomena like dark matter, and spectacular scenes of spacecraft such as the Galileo probe's breathtaking plunge into Jupiter's atmosphere.





PLAN YOUR VISIT

For inquiries and registrations: bookings@spacecentre.ca | 604-738-7853

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One Sky: 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, Japanese Samurai, and 18th century India showcase examples of how all cultures mapped the stars, planets and observed the passages of time under One Sky.

- 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 Singhs 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!

One Sky: Indigenous Astronomy

Project features Indigenous perspectives of astronomy, space, time, and navigation that have been inspiring minds for millennia. Three short films include stories about seeking Thunderbird and finding patterns in Celestial Canoe and Wayfinders. Ideal for younger audiences, but accessible to all of us living under 'One Sky' on planet Earth.

Grades	Planetarium Shows
Grade 4	Surfing the Solar System One Sky: Dreams of the Stars One Sky: Indigenous Astronomy
Grade 5	Surfing the Solar System
Grade 6	Surfing the Solar System Exo: Are we alone? (2026) Neil deGrasse Tyson: Dark Universe (2027)
Grade 7	One Sky: Dreams of the Stars One Sky: Indigenous Astronomy

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LIVE DEMO STAGE

Planet Hunters

Astronomers use their understanding of the relative position between a star and its planets to find planets beyond our solar system. Discover more about the planet hunting techniques astronomers use on their quest to find signs of life in the universe.

Rock Stars

This show focuses on how the rock cycle drives the geological landscape we see near Vancouver and around the globe. We explore the formation of the igneous, sedimentary, and metamorphic stages of this cycle and what forces drive this process. This show then takes this knowledge and applies it to our neighbouring celestial bodies such as the Moon, Mars, and distant Asteroids. We use geology to probe the early solar system, solve celestial mysteries, and find alien life! We even get up close and personal as we examine real meteorites to bring space geology literally into your own hands.

Rocket Lab

What goes up does not necessarily come down. How do rockets get up there in the first place? Students participate in this live demonstration of the basic principles of Newton's Laws of Motion and its use in rocketry.

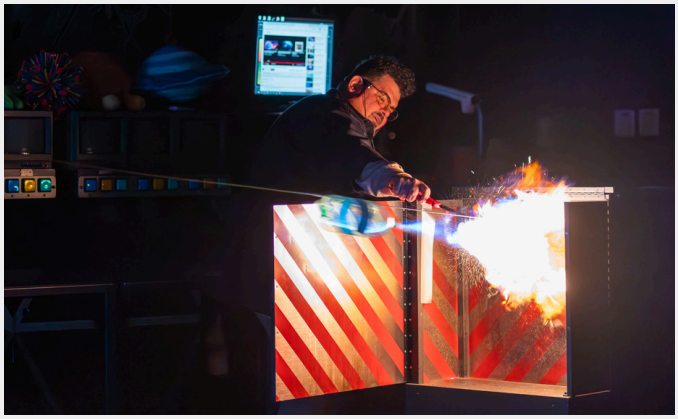
Grades	Live Demo Stage
Grade 4	Planet Hunters
Grade 5	Rock Stars
Grade 6	Rocket Lab Space is a dangerous place
Grade 7	Colour of Fire

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.

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.



GALLERY EXHIBITS

Students can explore our interactive, space-themed exhibits, with activities including:

- Discovering what we're made of with Star Stuff
- Morphing into an alien
- Touching a Moon rock
- Trying to lift a meteorite
- Exploring hands-on space science exhibits

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GO DEEPER WITH A WORKSHOP

**Recommended add-on*

Take your students' learning beyond the field trip experience with your choice of inquiry-based workshop.

Grades	Workshop
Grade 4	Moon in Motion
Grade 6	Space launch Challenge Extremophiles
Grade 7	Constellation Storytelling

Moon in Motion

How does a better understanding of the Moon help fuel exploration? Students will learn about the relationship between the Earth, Sun and Moon, including Moon phases and tides and of the challenges humans would face living in a lunar environment.

Extremophiles

Does life exist beyond our solar system? By applying an understanding of the extremes that life on Earth can endure and the work of scientists searching for exoplanets (planets beyond our solar system), students will develop their own conclusions on whether alien life exists somewhere in the galaxy and what it might look like.

Space Launch Challenge

What do scientists and engineers do to make their ideas a reality? They use their knowledge of scientific concepts and rigorous experimentation. In this workshop, students will apply basic concepts of physics to design, prototype and launch a simple rocket. Students work in teams and launch their creations as a class.

Constellation Storytelling

In this interactive workshop, your students apply the knowledge of stories in the stars by creating their own constellation myth. They will be exposed to cross cultural examples of storytelling as a way of orienting ourselves to the Cosmos. The hero's journey, proverbs, seasonal changes in the sky can be sources for inspiration for connecting the dots of our nearby stars. Cross curricular connections include writing, social sciences, and astronomy as an introduction to building worldviews.

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See the Universe in Augmented Reality

**Premium add-on*

Enter an immersive Space lab where students can wear AR headsets to explore the solar system through interactive augmented reality experiences. This isn't screen time. AR layers interactive 3D space models into the real environment and students can move through learning, see concepts from every angle and stay fully engaged!

Ask us for more information!

We come to you!

Immerse your students in the universe with our portable planetarium. Bring the curriculum to life with workshops, demos, and planetarium shows aligned with BC's science standards.

Get in touch to learn more!

Our promise

An inclusive learning environment

We are committed to creating an environment where students can embrace our shared humanity and explore the wonders of space science together.

Curriculum-connected programming

School programs are linked to the BC Curriculum and designed to complement classroom learning.

Designed for educators

Programs provide opportunities for students to learn through observation, discussion, demonstration and hands-on exploration.

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