



Rocket Lab Stageshow (Links to: Grades 4, 6, 9)

This energetic and interactive show is designed to teach Newton's Laws of Motion as they relate to rocket science. Learn about rocketry, gravity, drag, thrust, and the ideas and physics that have made space travel a reality! (45 minutes)

Living in Space Stageshow (All ages and grades)

Learn about life in microgravity! With supporting video examples from Shuttle Missions, and the International Space Station, our energetic teacher calls upon the audience's knowledge and participation to address the most intriguing topics about life in space, including eating, sleeping, exercise, bathing, and even going to the bathroom! This is our most versatile stageshow, remaining relevant and challenging for audiences as diverse as kindergarten to high school. (30-45 minutes)

Rocket Lab Workshop (All ages and grades. Links to Grades 4, 6, 9) (Rocket Building)

Students get a chance to become rocket scientists-in-training as they work collaboratively to design, build, test, and launch a simple rocket with Alka-Seltzer and water. Points of emphasis include aerodynamics, forces, basic chemistry, creativity and most importantly - teamwork. (45 minutes)

Problem Solving on Earth Workshop (Grades 7-9 Links to: Grade 9)

Students will be presented with a short history of space exploration and space disasters. They will then be presented with the following hypothetical situation: A space mission has gone to Titan, one of Saturn's moons, and upon going outside has found damage to the outside of the shuttle. Working in groups, and representing various delegates, the students will decide whether to send help or let the astronauts fend for themselves. (45 minutes)

Earn Your Wings to Flight Workshop (Links to Grades 6, 7)

Students will rotate through five different hands-on and interactive workstations. This visually captivating workshop directs students in exploring the properties of air, Bernoulli's principle of lift, aircraft control surfaces, and the differences between spacecraft and aircraft. (1 hour 45 minutes)

Monster Machines (Grades 1 -4 Links to Grades 1, 3, 4)

Students will explore the world of a newly discovered planet Qanik in a short presentation before they will begin their team work. As a group they will problem solve and try to build a functioning machine out of K'nex that will aid in the development of the new planet. Some examples are ice boats, cranes, rovers and windmills. (45 minutes)

StarLab Workshop (All ages and Grades)

Our planetarium will give your students a view of the night sky like they have never seen before. Appropriate for all ages and grades, this workshop allows students to view the constellations in the Northern and Southern Hemispheres. Students will also have the opportunity to explore the heroes, villains and creatures of the sky, and learn the stories of Ancient Greece. (45 minutes)

Programs cost \$5 per student (+GST) for the first program and only \$1 per student for any additional shows! If you would like to book your class for a visit to Spaceport, or if you would like more information, please contact our Educational Program Director at 403-717-7679

