

Rocket Lab Stageshow

Program Description:

The Rocket Lab Stageshow has dazzled grade 6 classes from around the province, teaching principles of motion from the Air and Aerodynamics unit with a fresh perspective. As with all of our programs, this stageshow encourages interaction with the audience, welcoming tough questions, analytical and creative thinking, and lots of fun audience participation. The stageshow splashes graphics across three large plasma screens to give curricular material visual accessibility unavailable in the conventional classroom.

Newton's Laws of Motion, often largely a matter of memorization at school, are brought to life before the students in the context of rocketry: our rocket cart (complete with a double-barreled air cannon, air-pressured rocket, bicycle pump and foam balls) brings your students face-to-face with the physics of rocketry. The laws of motion are contextualized within the history of rocket science—from the ancient Greeks and Chinese through Newton, Tsiolkovsky and Goddard. Students will find everyday examples--from balloons to sports to automotives—to connect their new rocket-knowledge with the rest of their knowledge, showing the relevance of Newton's Laws beyond rocketry. Students will learn why launching a rocket into space is such an amazing accomplishment, the regularity with which this feat is accomplished, and the fundamentals of a successful rocket launch. Who said that being a rocket scientist is tricky?

Curricular Links:

Grade 6: Air and Aerodynamics

Learner Outcomes:

SpacePort closely matches its programs to Alberta Learning's Programs of Study for elementary and junior high grades. We are always happy to fax or email a detailed outline of how our programs match Specific Learner Expectations (SLEs) and General Learner Expectations (GLEs) as established by Alberta Learning. Please call or email our Educational Program Director for further information.