

Earn Your Wings

Program Description:

Earn Your Wings to Flight offers students a chance to discover the science of aviation firsthand. Students rotate through five stations to make close observations of the physics of flight: air pressure and Bernoulli's principle, the movement of air molecules, angle of attack, principles of lift, drag and turbulence, wing shape, airplane control surfaces and motions, and the differences between shuttle flight and airplane flight. The stations make the usually invisible forces of flight visually available using smoke checks, wind tunnels, remote-control airplanes and model air molecules to bring science to life.

Students record their observations in a logbook, answering questions that encourage them to connect their data to problems of wider significance and deduce further hypotheses from their observations.

Curricular Links:

Grade 6: Flight, 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.