

CURRICULUM CONNECTIONS

This section is for educators who want more specific information regarding the Grade 6 curriculum connections for each activity in the *Crash Landing Aeronautical Engineering* crate.

Grade 6: Table of Knowledge Outcomes¹

Activity	Unit	STS-Knowledge Outcomes
Course 1: In Control	Flight	SLE 5: Apply appropriate vocabulary in referring to control surfaces and major components of an aircraft. This vocabulary should include: wing, fuselage, vertical and horizontal stabilizers, elevators, ailerons, and rudder. SLE 4: Recognize the importance of stability and control to aircraft flight; and design, construct, and test control surfaces.
Course 2: Defying Gravity	Air and Aerodynamics	SLE: 3 Describe and demonstrate instances in which air movement across a surface results in lift — Bernoulli's Principle.
Course 3: I Spy in the Sky	Flight	SLE 7: Describe differences in design between aircraft and spacecraft, and identify reasons for the design differences.
Course 4: What a Drag	Air and Aerodynamics	SLE 7: Recognize that streamlining reduces drag, and predict the effects of specific design changes on the drag of a model aircraft or aircraft components.
Course 5: Perplexing Propellers	Flight	SLE 6: Construct and test propellers and other devices for propelling a model aircraft
Course 6: Airborne Animals	Air and Aerodynamics	SLE 5: Identify adaptations that enable birds and insects to fly. SLE 6: Describe means of propulsion for flying animals and for aircraft.
Course 7: Up, Up, and Away	Flight	SLE 2: Describe the design of a hot air balloon and the principles by which its rising and falling are controlled.

1. Alberta Education Programs of Study (1996)