



Curated Curriculum-Based Learning Tour

Curriculum-based 2-hour education package. Bushplane tour and private viewing of the Wildfires, and cross-curricular integrated learning strategies that align with the following elements of the Ontario 2022 Curriculum:

JK/SK

As students explore the museum with their guide, they will be encouraged to recognize and identify letters, numbers, and shapes. They will gain an understanding of spatial relationships as they use non-standard units of measure to compare the wingspan of full-size aircraft. Aviation-themed arts and crafts will teach them about airplane parts and story time with our *Bushplane Friends* will promote literacy skills.

JK/SK



Grade 1:

As they learn about advancements in bush flying over the years, students will consider structure, materials and their properties, and the importance of form and function in design. Numbers, counting, measurement and symmetry are incorporated into this program. Students will expand their vocabulary while discovering different parts of an airplane and their purposes, having fun colouring and matching words with pictures, and they'll learn and perform a song about airplane control surfaces!

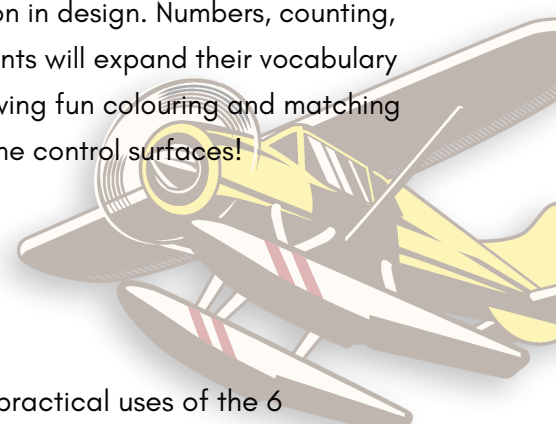
Grade 1



Grade 2:

STEM lesson plans and activities will encourage students to explore practical uses of the 6 types of basic simple machines, and the museum's full-size airplanes will inspire students to identify simple machines and their use in aeronautics. The Grade 2 tour also incorporates elements from both the Data Collection and Location and Movements expectations from the current Mathematics curriculum. Arts and literacy are promoted as the children familiarize themselves with the science of flight and discover the fascinating history of bush flying in the north.

Grade 2





Grade 3:

Students will explore the forces that cause movement in relation to aviation. As they learn about the Four Forces of Flight, students will differentiate between contact and non-contact forces, consider the different ways forces are exerted on airplanes, and discover how altering forces and their properties can affect a plane's motion. Their guided tour of the museum will provide a demonstration of how pulleys operate on airplanes control surfaces as well as an up-close exploration of structure and stability of early model bushplanes.

Grade 3



Grade 4:

Machines and Their Mechanisms are the focus of our Grade 4 education package. Students will work in groups to construct KNEX crank fans to simulate airplane propellers, exploring the transfer of motion through a spur gear system, and investigating the relationship between gear size, speed of rotation and force.

Grade 4



Grade 5:

Forces acting on Structures are investigated through the lens of design and engineering in aviation. The Four Forces of Flight and Newton's Laws of Motion and Gravity will be considered as students take a design thinking as they experiment with parachutes. The Paper Airplane Challenge is a fun and exciting way to learn about aerodynamics and control surfaces!

Grade 5



Grade 6:

Abridged Grade 6 Flight program available.





Grade 7:

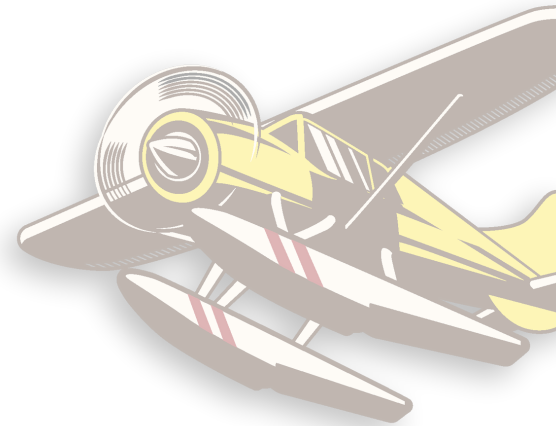
Form, Function and Design of Structures are examined through the construction of an airfoil. Working in groups using KNEX kits, Grade 7 students will discover that airfoil ribs are constructed from trusses and connected by stringers and spars to create an airplane wing. Classifying structures and recognizing the forces that must be considered in aeronautical design are the focus of the Grade 7 tour, while entertaining and interactive STEM activities will guide students in their exploration of the centre of gravity.

Grade 7



Grade 8:

Under development.



Pricing

\$10.62 per student + tax. Does not include a scheduled booking with Entomica therefore no guarantee of access to the insectarium.

NOTE: All options allow for open-ended free time. Nutrition breaks can be scheduled with space provided for seating. Schools responsible for transportation booking and fees. Entomica bookings can be included in CBHC educational programming upon request.