



# SCHOOL PROGRAMS 2018-2019

PRESCHOOL TO SECONDARY SCHOOL



CANADA AVIATION  
AND SPACE MUSEUM

# Curriculum Connections

The Canada Aviation and Space Museum offers a range of school programs; some are geared to meet the requirements of the Ontario and Quebec curriculums, while others offer a less formal approach to learning. These programs have been designed to maximize your students' opportunities to explore, experiment, observe, assess, and discuss their findings. Participation is key to all programs and is actively encouraged by our dynamic education staff.

Our guided tours are interactive, providing students with many opportunities to ask questions, make comments, and share their experiences. Workshop-style programs offer hands-on components, where students are able to put theory into practice following the principles of the scientific method.

Your visit will enable your students to understand — and better appreciate — Canada's aeronautical and space heritage. Our museum's world-class aircraft collection is the perfect backdrop for programs that tell the wonderful stories of extraordinary achievements, and how they relate to the broader social and economic context of Canadian history.

Educational Activity Kits, posters, and other resources that complement these programs are available online at [IngeniumCanada.org](http://IngeniumCanada.org) or by calling **613-991-3053**.

## Ontario

	Science and Technology	Mathematics
Kindergarten	The Big Blue Balloon Adventure	The Big Blue Balloon Adventure
	Science and Technology	Social Studies
	Understanding Structures and Mechanisms	People and Environments
Grade 1	Where Do Airplanes Come From? ( <b>New!</b> Coming in 2019)	Connecting Flight ( <b>New!</b> Coming in 2019)
2		Connecting Flight ( <b>New!</b> Coming in 2019)
3		Connecting Flight ( <b>New!</b> Coming in 2019)

Science and Technology		Social Studies
Understanding Structures and Mechanisms	Understanding Earth and Space Systems	People and Environments
4		Fly Me to the Moon <b>(New! Coming in 2019)</b>
5		Fly Me to the Moon <b>(New! Coming in 2019)</b>
6	Flight Night Flight (Aviation) Sleepover From the Ground Up* (Aviation)	Night Flight (Space) Sleepover From the Ground Up* (Space)  Fly Me to the Moon <b>(New! Coming in 2019)</b>

Science and Technology		Social Studies
Understanding Structures and Mechanisms		Canada, 1890-1914: A Changing Society
7	Form and Function in Flight <b>(New! Coming in 2019)</b>	
8		Made in Canada <b>(New! Coming in 2019)</b>

### Technological Education

Transportation Technologies	
9	Aviation and Technology

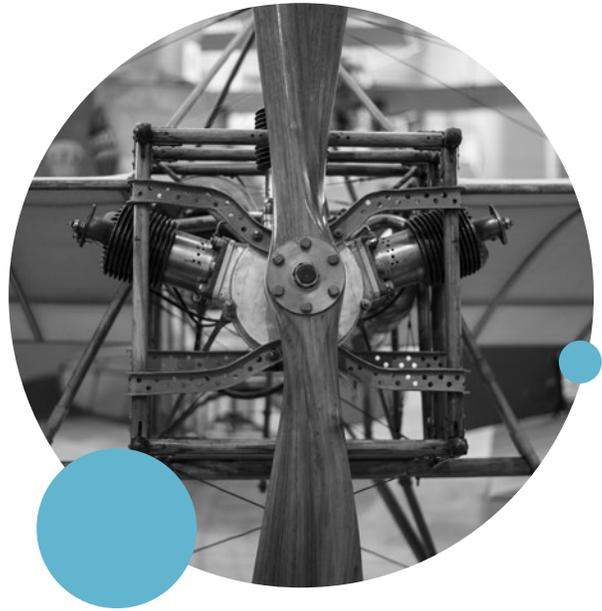
Technological Education		Canadian and World Studies
Transportation Technologies		History
10	Aviation and Technology	Canada and the World in Flight <b>(New! Coming in 2019)</b>
11	Aviation and Technology	Canada and the World in Flight <b>(New! Coming in 2019)</b>
12		Canada and the World in Flight <b>(New! Coming in 2019)</b>

\*From the Ground Up is an evening program

# Quebec

## Preschool

	<b>Mathematics, Science and Technology</b>
	Competency 5 – To construct his/her understanding of the world
Preschool	The Big Blue Balloon Adventure



## Elementary Cycles 1 to 3

	<b>Mathematics, Science and Technology</b>	<b>Social Studies</b>
	<b>Science and Technology</b>	<b>Geography, History and Citizenship Education</b>
	Competency – To explore the world of science and technology	Competency – To construct his/her representation of space, time, and society
Cycle 1	Where Do Airplanes Come From? ( <b>New!</b> Coming in 2019)	Connecting Flight ( <b>New!</b> Coming in 2019)



	<b>Mathematics, Science and Technology</b>	<b>Social Studies</b>	
	<b>Science and Technology</b>	<b>Geography, History and Citizenship Education</b>	
	The Material World	Earth and Space	Quebec society between 1900 and 1980
Cycle 2	Flight Night Flight (Aviation) Sleepover From the Ground Up* (Aviation)	Night Flight (Space) Sleepover From the Ground Up* (Space)	
Cycle 3	Flight Night Flight (Aviation) Sleepover From the Ground Up* (Aviation)	Night Flight (Space) Sleepover From the Ground Up* (Space)	Fly Me to the Moon ( <b>New!</b> Coming in 2019)

\*From the Ground Up is an evening program

## Secondary Cycles 1 to 3

	<b>Mathematics, Science and Technology</b>	<b>Social Studies</b>
	<b>Science and Technology</b>	<b>History and Citizenship Education</b>
	The Material World	Competency 1 – Examines social phenomena from a historical perspective
Cycle 1	Aviation and Technology	Made in Canada ( <b>New!</b> Coming in 2019)
Cycle 2	Aviation and Technology	Canada and the World in Flight ( <b>New!</b> Coming in 2019)

# Kindergarten to Grade 6 (ON) / Preschool and Elementary Cycles 1 to 3 (QC)

Programs offered from September to June

## The Big Blue Balloon Adventure

Kindergarten · Preschool  
\$5 per student  
Duration: 90 minutes

After reading *The Blue Balloon* by Mick Inkpen, students set out on a discovery tour to visit a variety of aircraft. At each stop marked by a blue balloon, students look for three-dimensional shapes within the aircraft structures. They also count wings, windows, and wheels and graph their observations. Finally, the children enter the Aircraft Inventor's Workshop, build their own flying machines, and try on cool costumes.



 This symbol indicates a new program coming in 2019

## Where Do Airplanes Come From?

Grade 1 / Elementary Cycle 1  
\$5 per student  
Duration: 90 minutes

If you were inventing an airplane, what would it look like? What materials would you use? What job would your airplane have? On tour, the children look at airplanes from the perspective of the men and women who built them. Next comes their chance to be inventors and build their own model aircraft in our Aircraft Inventor's Workshop.

## Connecting Flight

Grades 1 to 3 / Elementary Cycle 1  
\$5 per student  
Duration: 60 minutes

This is an interactive guided tour, linked to the Social Studies curriculum in both provinces. Students visit the museum's collection, make observations, and ask questions about the role of aviation in Canada.

## Fly Me to the Moon

Grades 4 to 6 / Elementary Cycle 3

\$5 per student

Duration: 75 minutes

This is an interactive guided tour, linked to the Social Studies curriculum in both provinces. Students visit the museum's collection, make observations, and ask questions about the role of aviation and the aerospace industry in Canada.

## Flight

Grade 6 / Elementary Cycles 1 and 2

\$6 per student

Duration: 120 minutes

In Flight, students conduct experiments about the properties of air and discover the four forces of flight. During an interactive, guided tour of the collection, students observe and discuss aircraft shape, size, and choice of materials. They examine the design of wings, engines, and propellers, and explore how these elements affect the four forces of flight and the aircraft's purpose. Students also sit in the cockpit of the museum's Cessna 150. As they operate the controls, they learn about the various control surfaces and how they affect the aircraft. In addition, students build and test paper gliders.

## Night Flight Sleepovers

Grade 6 / Elementary Cycles 1 and 2

\$775 **minimum** fee

Duration: 6 p.m. to 9 a.m.

Experience a real "Night at the Museum" and sleep under the wings of world-renowned aircraft! Night Flight Sleepovers include hands-on activities, a snack, a flashlight-guided tour of the museum, and a movie. Choose from two great themes:

### Aviation Night Flight

Try out the controls of a Cessna 150, participate in amazing aerodynamics experiments and sit in an ejection seat.

### Space Night Flight

Test your space skills in our astronaut training program, build a space habitat, and do amazing space science demos.

## From The Ground Up!

### (Evening Program)

Grade 6 / Elementary Cycles 1 and 2

\$540 **minimum** fee

Duration: 6 p.m. to 9:30 p.m.

From the Ground Up! engages your group in an evening of exciting activities and workshops, and includes a flashlight-guided tour of the museum. Choose from two great themes:

### From the Ground Up! — Aviation

Try out the controls of a Cessna 150, participate in amazing aerodynamics experiments and sit in an ejection seat.

### From the Ground Up! — Space

Test your space skills in our astronaut training program, build a space habitat, and do amazing space science demos.



# Grades 7 to 12 (ON) / Secondary Cycles 1 and 2 (QC)

Programs offered from September to June

 This symbol indicates a new program coming in 2019

## Form and Function in Flight

Grade 7

\$5 per student

Duration: 90 minutes

This is an interactive guided tour, linked to the Ontario Science and Technology curriculum with a focus on aircraft design and how it changed over time.

**NOTE:** Quebec Secondary Cycle 1 science teachers are advised that Aviation and Technology (see below) is a more closely-linked program for their curriculum needs.

## Made in Canada

Grade 8 / Secondary Cycle 1

\$5 per student

Duration: 90 minutes

Students explore the impact of aviation and the development of the aerospace industry in Canada since the first powered flight in 1909. Iconic aircraft — including the de Havilland Canada Beaver and the Avro Arrow — are highlighted, as well as the Canadarm and the contributions of exceptional Canadians including Alexander Graham Bell, Commander Chris Hadfield, and Governor General Julie Payette.

## Aviation and Technology

Grades 9 to 11 / Secondary Cycles 1 and 2

\$5 per student

Duration: 90 minutes

During a tour of the museum, students handle the materials used to make the aircraft they visit. They can actually feel the lightness of bamboo and examine honeycomb structures up close, to better understand why and how these materials work. Students also discuss changes in aviation technology over time, and examine ways to lessen an aircraft's environmental impact.

## Canada and the World in Flight

Grades 10 to 12 / Secondary Cycle 2

\$5 per student

Duration: 90 minutes

This tour encourages students to ask questions, make observations, and offer their thoughts about the evolution of the flying machine as a form of technology. They discuss the use of aircraft in Canada to meet the needs and demands of its citizens, and how this usage has affected the building of Canada as a nation and the role of our air force — both at home and abroad.



# Self-guided visits

Year round

## Solo Mission

\$4 per student

Solo Mission: Self-guided school tour that includes up to three different Scavenger Hunts of varying difficulty.



# General Information

Programs are offered weekdays from September to June. Some programs can be shortened to suit your requirements. All of the museum's educators are experts in adjusting the content to the needs of your class.

## Reserving your visit

Consult the list of programs and make your selection. Reserve as early as possible to avoid disappointment — we recommend a minimum of **one month in advance**.

School booking requests can be made through our [online form](#). You can also connect directly to our Customer Relations team:

**By telephone** 613-991-3053 or 1-866-442-4416

**By email** [contact@IngeniumCanada.org](mailto:contact@IngeniumCanada.org)

Confirmation of your scheduled program will be sent to you via e-mail. With the exception of self-guided visits, a representative from the education team will contact you prior to your visit to help you prepare for your visit and to discuss the needs of your students.

## Free visit preview

Teachers are welcome to visit the museum free of charge by presenting proof of their teaching status.

Gordon King Photography



## Planning your visit

We strongly recommend the following minimum ratios for student supervision (by adults) when visiting the museum:

Age	Student-Adult Ratio
6 years and under	6 : 1
7 to 12 years	8 : 1
13 to 18 years	10 : 1

Plan to spend **1 to 1 ½ additional hours** at the museum. This will give you time to explore the museum before or after your program, watch aircraft taking off and landing (in good weather), and visit the Aeronautic Boutique.

If you plan to stay for lunch, ask the Reservation Office about reserving space in the cafeteria or picnic area.

If your program includes a craft, remember to bring bags so that you can take your students' creations back to school more easily.

Please ensure the supervision of your students during free time or with an independent visit. This is essential to creating a safe and fun atmosphere at the museum.

**Accompanying adults fee:** Free

**Parking fees:** \$3 per hour, \$8 daily maximum (free for buses)

## Accessibility

The museum is committed to providing an [accessible environment](#). Please let us know if your group has any special needs upon booking, and we'll be happy to discuss specific accommodations.

## How to find the museum

The Canada Aviation and Space Museum is located at 11 Aviation Parkway in Ottawa.