Curriculum Connections

School programs at the Canada Agriculture and Food Museum extend and enrich the classroom experience by bringing Ontario and Quebec curricula to life, and meet many learning objectives for students from preschool through Grade 12/Secondary Cycle 2. Dynamic and hands-on, these school programs are designed to stimulate your students using scientific inquiry, within an informal and educational environment.

Activities and other educational resources complementing these programs are available online at IngeniumCanada.org/educational-programs.

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

Ontario

*indicates programming offered in schools only

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| Grade 2                |                                |                                   |
| Buddy Rabbit*          | Butter Making                 | Chill Out                          |
| Busy Bees              | Chill Out                      |                                   |
| Butter Making          |                                |                                   |
| Chill Out              |                                |                                   |
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| NEW! Halloween on the Farm |                            |                                   |
| Henrietta Hen*         |                                |                                   |
| Meet the Farm Animals  |                                |                                   |

Reservations: 613-991-3053 or 1-866-442-4416
### Science and Technology

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### Social Studies

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### Science

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### Canadian and World Studies

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<tr>
<th>Biology</th>
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<tr>
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<td>Agriculture and the Environment Genetics and Biotechnology</td>
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<td>Agriculture and the Environment Genetics and Biotechnology</td>
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*indicates programming offered in schools only
Quebec

Preschool

Competency 5: To construct his/her understanding of the world

A Handful of Soil
Barnyard Buddies
Buddy Rabbit*
Busy Bees
Butter Making
From Sheep to Sweater*
NEW! Halloween on the Farm
Henrietta Hen*
Meet the Farm Animals
Pumpkins

Elementary Cycles 1 to 3

<table>
<thead>
<tr>
<th>Mathematics, Science and Technology</th>
<th>Social Sciences</th>
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<tr>
<td><strong>Science and Technology</strong></td>
<td><strong>Geography, History and Citizenship Education</strong></td>
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<tr>
<td>Competency: To explore the world of science and technology</td>
<td>Competency: To construct his/her representation of space, time and society</td>
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**Cycle 1**

A Handful of Soil
Buddy Rabbit*
Busy Bees
Butter Making
Chill Out
From Sheep to Sweater*
Henrietta Hen*
NEW! Halloween on the Farm
Meet the Farm Animals
Pumpkins
The Need to Knead

*indicates programming offered in schools only
## Mathematics, Science and Technology

### Science and Technology
- Competency 1: Seeks answers or solutions to scientific or technological problems
- Competency 2: To make the most of scientific and technological tools, objects and procedures

### Social Sciences
- Competency 2: To interpret change in a society and its territory

### Cycle 2
- Buddy Rabbit*
- Busy Bees
- Chill Out
- Discover the Barns
- From Sheep to Sweater*
- Henrietta Hen*
- **NEW!** Living Soil
- The Need to Knead

### Cycle 3
- Discover the Barns
- Properties of, and Changes in Matter: Bread

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### Secondary Cycle 2

#### Mathematics, Science and Technology

### Science and Technology
- Competency 1: Seeks answers or solutions to scientific or technological problems

### Cycle 2
- Agriculture and the Environment
- Genetics and Biotechnology
- **NEW!** Soil Science*
Daycare Programs
18 months to 5 years of age

Barnyard Buddies
Year-Round
Duration: 90 minutes
$9 per child
Accompanied by Mr. or Ms. Farmer, little ones will meet sheep, goats, pigs, chickens and rabbits. Children will discover the smells and sounds of the farm, touch the animals’ soft coats, sing, make crafts, and listen to a farm tale.

Meet the Farm Animals
JK to Grade 2 / Preschool and Elementary Cycle 1
September through June
Duration: 90 minutes
$9 per student
In this program, your students will smell, touch, observe and listen to farm animal, up close and personal! Each animal—whether rabbit, chicken, honeybee or cow—has its own characteristics and needs. Students will explore the animals’ environments, their lifecycles, and why we raise them. Students will also have a chance to handle some farming tools.

School Program Descriptions
School Program Descriptions include all suitable grade levels, however, educators should cross-reference the Curriculum Connections Chart to verify the direct curriculum link (see pages 2-5).
Butter Making
JK to Grade 3 / Preschool and Elementary Cycle 1
September through June
Duration: 90 minutes
$9 per student
In the Dairy Barn, your students will meet the calves and cows. They will learn the characteristics of mammals, discover where milk comes from, and handle old-fashioned dairy equipment. In one of the museum’s laboratories, students will also transform cream into butter—ready to be spread and tasted!

Busy Bees
JK to Grade 3 / Preschool to Elementary Cycle 2
September through June
Duration: 90 minutes
$9 per student
In this interactive workshop, your students will discover the important role of bees in pollination, as well as the dangers they face. Students will handle beekeeping tools, taste different types of honey, and watch bees at work in the museum’s observation hive.

The Need to Knead
Grades 1 and 3 / Elementary Cycles 1 and 2
September through June
Duration: 2 hours
$9 per student
Want to make some dough? Just like The Little Red Hen, your students will be able to thresh the wheat, grind the seed into flour, sniff the yeast, knead the dough, and taste a loaf of bread—fresh out of the oven! Students will also explore how to grow wheat and handle old-fashioned farming tools.

Discover the Barns
Grades 3 to 6 / Elementary Cycles 2 and 3
September through June
Duration: 90 minutes
$9 per student
In this introduction to agriculture, your students will explore the museum’s barns and meet a wide range of farm animals, from the tiny domestic honeybee to the gigantic Clydesdale horse. Students will learn about animal husbandry, and where food comes from. They will also discover various careers within the agri-food sector, and the roles that science and technology play in today’s agricultural industry.

Properties of, and Changes in Matter: Bread
Grade 5 / Elementary Cycle 3
September through June
Duration: 2 hours
$9 per student
Your students will explore changes in matter by transforming grains of wheat into a delicious loaf of bread. They will learn key bread-making processes, including fermentation, protein coagulation, and starch gelatinization. At the same time, students will discover that a kitchen is, in the end, a wonderful science lab!
Discover the Barns
Grades 7 to 12 / Secondary Cycles 1 and 2
September through June
Duration: 90 minutes
$9 per student
In this introduction to agriculture, your students will explore the museum’s barns and meet a wide range of farm animals, from the tiny domestic honeybee to the gigantic Clydesdale horse. Students will learn about animal husbandry, and where food comes from. They will also discover various careers within the agri-food sector, and the roles that science and technology play in today’s agricultural industry.

Agriculture and the Environment
Grades 7 to 9 and Grades 11 and 12 / Secondary Cycle 2
September through June
Duration: 2 hours and 30 minutes
$9 per student
What better place than a working farm to explore the impact of modern agriculture on the environment? In the museum’s barns, your students will take part in various cooperative activities, using critical thinking skills as they try to find solutions to some of the thorny issues surrounding agriculture and the environment.

Genetics and Biotechnology
Grade 11 and up / Secondary Cycle 2 and up
September through June
Duration: 2 hours and 30 minutes
$9 per student
How are genetics and biotechnology used in agriculture? What is their impact on the environment? In this highly interactive program, your students will have an opportunity to apply their knowledge of heredity and genomics to improving the genetics of the museum’s dairy herd. Students will also explore how genetic engineering has transformed farming practices, and how it continues to push the boundaries of farming for the future.
Seasonal Programs

**Pumpkins**
JK to Grade 1 / Preschool and Elementary Cycle 1  
September 25 to October 31, 2019  
Duration: 90 minutes  
$9 per student  
It’s harvest time! Bring your students to the museum to learn all about pumpkins, a symbol of fall. They will listen to a story, take part in pumpkin experiments, and explore the origins of fall traditions. After learning the characteristics of the plant and its fruit, each student will get to bring a small pumpkin back to class.

**NEW! Halloween on the Farm**
JK to Grade 3 / Preschool and Elementary Cycle 1  
October 24 and 25, 2019  
9:30 a.m. to 2:30 p.m.  
$11 per student  
This special celebration of the fall harvest and Halloween combines unusual discoveries with educational activities. Your students will try Halloween-themed experiments, visit a haunted house, dance, make crafts, learn about bats, pumpkins, corn and apples, meet farm animals, and much more. A full day of fun!

**Chill Out**
Grades 1 to 3 / Elementary Cycles 1 and 2  
May 1 to June 12, 2020  
Duration: 90 minutes  
$9 per student  
In the Dairy Barn, your students will learn where milk and cream come from, and handle old-fashioned dairy tools. After meeting the museum’s dairy cows, students will get started on experiments with a delicious result: homemade ice cream!

**NEW! Living Soil**
Grades 3 and 4 / Elementary Cycle 2  
May 1 to June 12, 2020  
Duration: 90 minutes  
$9 per student  
Through a series of hands-on workshops, your students will discover the vibrant world hidden right under their feet! They will observe life forms in soil with magnifying glasses and microscopes, and compare the properties and characteristics of various soils. Students will also determine what plants need, and learn how to keep soil and its inhabitants healthy.

**A Handful of Soil**
JK to Grade 1 / Preschool and Elementary Cycle 1  
May 1 to June 12, 2020  
Duration: 90 minutes  
$9 per student  
It’s easy to forget that soil is teeming with life. With your students, dig into the ground and discover the creatures hiding there. Students will learn the characteristics of earthworms, sow seeds, study the germination of plants, and make a germination necklace to take back to class.
Bring the museum to you with the AgVenture mobile education program

Daycare: Ages 4 and up
Kindergarten to Grade 4 (ON)
Preschool to Elementary Cycle 2 (QC)
We offer three different 40-minute workshops:

**Buddy Rabbit**
Are all rabbits the same? What do they need? What is a hare and where does it live? Does it have predators? As they explore these questions through games and investigations, your students will also enjoy a face-to-face visit with a rabbit, and pet its soft fur.

**Henrietta Hen**
It’s hard to believe that the tiny Serama chicken is a distant relative of the terrifying Tyrannosaurus Rex! Your students will hear the rooster crow, touch the hen’s soft feathers, and watch the museum’s chickens peck. Through fun educational activities, students will explore the characteristics, needs and behaviour of this barnyard star.

**From Sheep to Sweater**
What is a sheep? What are the responsibilities of shepherds and sheepdogs? How did pioneers turn a sheep’s fleece into clothing? This flexible program will allow your students to explore the properties of wool through fun activities.

Grades 9 and 11 (ON)
Secondary Cycle 2 (QC)
We offer one 60-minute workshop:

**NEW! Soil Science**
What is soil made of? What is a nutrient? Are all soils equal? Is soil essential to plant life, or can plants live without it? Your students will answer these questions and more while performing some unusual experiments.

Available from November 1, 2019 to February 28, 2020.
Fees vary, depending on the number and combination of workshops.
Each program is adapted to the age(s) and Grade(s) of your students.

Find out if you’re eligible for financial support!
General Information

Reserving your visit
Most programs are available weekdays from September through June, and are scheduled from 9 a.m. to 3 p.m. There are two ways to reserve a program: School booking requests can be made using our online form. You can also connect directly with our Customer Relations team:

Email: contact@IngeniumCanada.org
Phone: 613-991-3053 or 1-866-442-4416

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

Planning your visit
The following minimum ratios for adult supervision of students are mandatory when visiting the museum.

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<thead>
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<th>Level</th>
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<td>Kindergarten to Grade 8</td>
<td>6 : 1</td>
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<td>Grades 9 to 12</td>
<td>10 : 1</td>
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During these programs, museum educators will encourage teachers and accompanying adults to participate and assist. Proper supervision during free time is also essential to ensure a safe and fun atmosphere at the museum. Teachers and supervisors are expected to remain with their students at all times.

Please remember that the museum is also a demonstration farm, complete with large animals and working machinery. Students and accompanying adults should be dressed appropriately for the weather and for farm conditions. Adult chaperones are included in the group price, at a maximum ratio of one per four students for elementary groups, or one per six students for secondary groups. If you wish to include additional accompanying adults, they will be charged the group rate.

The museum reserves the right to limit the number of additional accompanying adults.

Accompanying adults fee: $1 per adult (excluding teachers)
Vehicle parking fees: Free for buses; $3 per hour to an $8 daily maximum for other vehicles (same day only).

Accessibility
Please let us know if your group has any special needs upon booking, and we will be happy to discuss specific accommodations.

How to find the museum
The Canada Agriculture and Food Museum is located on the Central Experimental Farm in Ottawa. The entrance to the museum parking lot is located on Prince of Wales Drive, south of the traffic circle. All buses must use this entrance.
Extend your museum experience with activities, information, and worksheets available online.

Educational Activity Kits

Educational Activity Kits

Get a complete series of curriculum-based lessons, information, and materials delivered right to your class in museum EduKits.

Healthy Kids Quest

Give your students the tools they need to make healthy lifestyle choices!