

School Programs

2007-08

From Kindergarten to Secondary School





CURRICULUM CONNECTIONS

Our programs will extend and enrich the classroom experience by bringing curricula to life. Dynamic and hands-on, they are geared to stimulate multiple intelligences through scientific inquiry in an informal education environment. Educational Activity Kits that complement our programs are available online or from the reservation office at **613-991-3053**.

Ontario

GRADE

KINDERGARTEN

Science and Technology

- Pumpkins
- Fall at the Farm
- Pioneer Children
- A Handful of Soil
- Sheep Shearing Festival
- Peter Cottontail
- Say Cheese!
- Meet the Farm Animals
- Butter Making



Science and Technology

Life Systems

- Pumpkins
- Fall at the Farm
- A Handful of Soil
- Sheep Shearing Festival
- Chill Out!
- Say Cheese!
- Meet the Farm Animals
- Butter Making
- What's to Eat?
- Bread Science

Matter and Materials

- Pioneer Children
- Sheep Shearing Festival
- Chill Out!
- Say Cheese!
- Butter Making
- Bread Science

Social Studies

Heritage and Citizenship

- Pioneer Children

Health and Physical Education

Healthy Living

- What's to Eat?

1

2

- Fall at the Farm
- The Incre-Edible School Program
- Sheep Shearing Festival
- Chill Out!
- Meet the Farm Animals
- Butter Making
- What's to Eat?

- The Incre-Edible School Program
- Chill Out!
- Butter Making
- Bread Science

- A Pioneer Winter

- The Incre-Edible School Program
- What's to Eat?

NEW

Free educational Activity Kits available online
agriculture.technomuses.ca

Science and Technology

Social Studies

Health and Physical Education

Life Systems

Matter and Materials

Heritage and Citizenship

Healthy Living

3

Fall at the Farm
The Incre-Edible
School Program
Spring Planting
Bread Science

A Pioneer Winter
The Incre-Edible
School Program
Sheep Shearing Festival
Chill Out!
Butter Making
Bread Science

4

Fall at the Farm
The Incre-Edible
School Program
Sheep Shearing
Festival
Spring Planting
Food Chains

5

"Chews" Wisely

Properties of and
Changes in
Matter: Bread

"Chews" Wisely

Science and Technology

History and Geography

Life Systems

Earth and Space Systems

Geography

History

7

Ecosystems and
Agriculture

Planting the Seeds of a Country
Ecosystems and Agriculture

Planting the Seeds
of a Country

8

Ecosystems and
Agriculture

Planting the Seeds of a Country
Ecosystems and Agriculture

Planting the Seeds
of a Country

Science

Canadian and World Studies

Biology

Geography

9

Genetics and Selective
Breeding

Planting the Seeds of a Country
Ecosystems and Agriculture

10

Ecosystems and
Agriculture

NEW

Free educational Activity Kits available online
agriculture.technomuses.ca

Quebec

GRADE

Preschool Education

KINDERGARTEN

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

- | | |
|-------------------------|-----------------------|
| Pumpkins | Peter Cottontail |
| Fall at the Farm | Say Cheese! |
| Pioneer Children | Meet the Farm Animals |
| A Handful of Soil | Butter Making |
| Sheep Shearing Festival | |



Domains of Study

Mathematics, Science, and Technology

Science and Technology

Competency — To explore the world of science and technology

- | | |
|--------------------------------|-----------------------|
| Pumpkins | Chill Out! |
| Fall at the Farm | Meet the Farm Animals |
| Pioneer Children | Butter Making |
| The Ince-Edible School Program | What's to Eat? |
| A Handful of Soil | Bread Science |
| Sheep Shearing Festival | |

Competency 2 — To make the most of scientific and technological tools, objects and procedures

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|--------------------------------|-------------------------|
| Fall at the Farm | Sheep Shearing Festival |
| A Pioneer Winter | Spring Planting |
| The Ince-Edible School Program | Food Chains |

Social Sciences

Geography, History, and Citizenship Education

Competency — To construct his/her representation of space, time, and society

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|-------------------------|
| Fall at the Farm |
| Pioneer Children |
| Sheep Shearing Festival |
| Chill Out! |
| Butter Making |
| What's to Eat? |

Competency 1 — To understand the organization of a society in its territory

Competency 2 — To interpret change in a society and its territory

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|-------------------------|
| Fall at the Farm |
| A Pioneer Winter |
| Sheep Shearing Festival |

Personal Development

Physical Education and Health

Competency 3 — To adopt a healthy, active lifestyle

- | |
|--------------------------------|
| The Ince-Edible School Program |
| What's to Eat |

Competency 3 — To adopt a healthy, active lifestyle

- | |
|--------------------------------|
| The Ince-Edible School Program |
|--------------------------------|

CYCLE 1

CYCLE 2

CYCLE 3

Mathematics, Science and Technology

Science and Technology

Competency 2 — To make the most of scientific and technological tools, objects, and procedures

“Chews” Wisely
Properties of and Changes in Matter: Bread

Personal Development

Physical Education and Health

Competency 3 — To adopt a healthy, active lifestyle

“Chews” Wisely

CYCLE 1 SECONDARY

Mathematics, Science and Technology

Science and Technology

Competency 2 — Makes the most of his/her knowledge of science and technology

Ecosystems and Agriculture

Social Sciences

Geography

Competency 1 — Understands the organization of a territory

Competency 2 — Interprets a territorial issue

Competency 3 — Constructs his/her consciousness of global citizenship

Planting the Seeds of a Country
Ecosystems and Agriculture

SECONDARY 3

Geography of Quebec and Canada

Planting the Seeds of a Country
Ecosystems and Agriculture



SECONDARY 4

General Biology

Ecosystems and Agriculture
Genetics and Selective Breeding

History of Quebec and Canada

Planting the Seeds of a Country



SEASONAL SCHOOL PROGRAMS

Fall

PUMPKINS

- K and Grade 1 (K and Cycle 1)
- \$6 per student
- Duration: 75 minutes
- October 1 to 31, 2007

"Spooky," "Trick or Treat," "Baby Pam," and "Bushkin"...Come harvest some pumpkin varieties planted by students last spring! Discover the Mohawk legend of the three sisters, explore the different parts of a pumpkin plant, and make a pumpkin craft to take back to class. (A-24)

FALL AT THE FARM

- K to Grade 4 (K to Cycle 2)
- \$6 per student
- Duration: 90 minutes
- September 17 to November 1, 2007

This program offers a cornucopia of fun with two activity stations featuring seasonal topics. Students start by discovering the role of bees in pollination and, as they become busy bees themselves, they learn about a bee's lifecycle and honey production. They also discover two fall crops: apples and corn. As they make cider, students learn about the many uses of these "fruits" in their everyday lives. Students learn about corn as they take part in a very corny quiz show. (A-5)

Winter

PIONEER CHILDREN

- K and Grade 1 (K and Cycle 1)
- \$6 per student
- Duration: 75 minutes
- November 14, 2007, to February 22, 2008

How were a pioneer child's life and responsibilities different from today? Students explore these differences as they dress up like pioneers and play act "a day in the life of a pioneer child." They make a beeswax candle to take home, taste some apple butter, and play a button game too! (A-31)

A PIONEER WINTER

- Grades 2 and 3 (Cycle 2)
- \$6 per student
- Duration: 2 hours
- November 14, 2007, to February 22, 2008

New Activities!

Learn how pioneers prepared for the long, dark days of winter in Upper Canada. See pioneer tools, do a little woodworking, make a beeswax candle to take home, and celebrate like a pioneer. Students dress in pioneer costume and have their photos taken to decorate their classroom. (A-26)

New!

THE INCRE-EDIBLE SCHOOL PROGRAM

- Grades 2 to 4 (Cycles 1 and 2)
- \$10 per student
- Duration: 3 hours (90 minutes before lunch and 90 minutes after)
- November 5, 2007, to February 25, 2008



Come and experience first hand where our food comes from, at the Canada Agriculture Museum. During this special engaging program, students first visit the barns to meet our farm animals, to learn about their life cycles and their roles in the food chain, and discover the many products and by-products that we obtain from animals. Students also study the needs and life cycle of plants, and receive plant seeds to take home. Finally, students prepare their own pizza snack from scratch, after first processing some of the ingredients themselves. (A-36)

CHINESE NEW YEAR

- Program not offered in 2008. See you in 2009!

Spring

A HANDFUL OF SOIL

- K and Grade 1 (K and Cycle 1)
- \$5 per student
- Duration: 75 minutes
- May 6 to June 13, 2008



There's new life above and below the ground in spring. Examine compost samples and learn the vital role earthworms play in creating healthy soil for plants. Explore the magic of germination through role play and by germinating a bean to take back to class. Then get ready to dig in the soil as students plant a garden at the Museum. (A-20)

“Hands-on experimenting
from start to finish.”

Grade 1 teacher
Barrhaven, Ontario

SHEEP SHEARING FESTIVAL

- K to Grade 4 (K to Cycle 2)
- \$6 per student
- May 15 and 16, 2008
- From 10 a.m. to 2:30 p.m.

Our annual sheep extravaganza is an unforgettable experience! Watch sheep being shorn, make felt, card and dye wool, meet a lamb up close, and watch sheepdogs in action—these are just a few of the activities students can do at our hands-on stations! (A-2)

CHILL OUT!

- Grades 1 to 3 (Cycle 1)
- \$6 per student
- Duration: 90 minutes
- May 7 to June 13, 2008

Students learn the journey from cow to cone as they tour the Museum's dairy barn and our demonstration milk house. They race against time as they decide which method is most efficient — an electric ice-cream maker or an old-fashioned manual one. If they break a sweat, there is plenty of ice cream to help them cool off at the end of this program! (A-33)

SPRING PLANTING

- Grades 3 and 4 (Cycle 2)
- \$5 per student
- Duration: 90 minutes
- May 7 to 30, 2008

During this hands-on program, students examine components of soil and the community of organisms that lives in it. They also learn the importance of vegetation in preventing soil erosion, study a plant's life cycle, and plant a farm crop seed to bring back to class. (A-6)

“Planting and talking about
soil tied in very nicely
with the Grade 3
science curriculum.”

Grade 3 teacher
Ottawa, Ontario

YEAR-ROUND SCHOOL PROGRAMS

For Everyone

DISCOVER THE BARNs

- (Guided Tour adapted for all grades and cycles)
- \$5 per student
- Duration: 90 minutes

Established over one hundred years ago, our showcase herds reflect the most important commercial breeds of animals in Canada, including cows, horses, sheep, pigs, goats, rabbits and chickens. Bring history alive as you discover our living heritage in the barns of the Canada Agriculture Museum. (A-21)

Primary and Junior Programs

PETER COTTONTAIL

- K
- \$5 per student
- Duration: 75 minutes

Meet a rabbit face to face and discover its world through folk “tails” and stories. Feel a rabbit's soft fur and learn why they have such big ears, wiggly noses, and thumping feet. Students make a bunny craft and do the bunny hop too! (A-19)



SAY CHEESE!

- K and Grade 1 (K)
- \$5 per student
- Duration: 75 minutes

Little Miss Muffet has nothing on us! Dress up like cheese makers and explore the steps to making cheese as you make it yourself. Using the senses, explore different kinds of cheese and taste your own cheese. Make a craft, hear a cheesy story, and in the barns, meet some animals that produce milk for making cheese. (A-25)

Continued on page 8...



YEAR-ROUND SCHOOL PROGRAMS

Continued from page 7

MEET THE FARM ANIMALS

- K to Grade 2 (K and Cycle 1)
- \$5 per student
- Duration: 90 minutes
- *Special focus on farm animal babies from March 17 to April 4, 2008*

Did you know that a sow carries her piglets for three months, three weeks and three days? That a dairy cow can drink up to one bathtub full of water every day? Use your senses to discover the characteristics and needs of dairy and beef cattle, sheep, pigs, horses, goats, and chickens. What do they eat? Where do they live? Are all farm animals mammals? Why do pigs have hair and chickens have feathers? Uncover the reasons why we raise these animals. Explore the environment in which they live as you see, touch, hear, and smell our livestock. (A-8)

BUTTER MAKING

- K to Grade 3 (K and Cycle 1)
- \$5 per student
- Duration: 75 minutes

See the life cycle of a dairy cow first hand as you visit the calves, heifers, and cows in our dairy barn. Together, we trace the journey of milk from pasture to table. Students learn that mammals produce both milk and cream, then they get to transform cream into fresh butter to eat for a snack. Students also get to handle the tools of yesterday's dairy farmer — pails, stool, milker, churn, and butter paddles. (A-10)

WHAT'S TO EAT?

- Grades 1 and 2 (Cycle 1)
- \$5 per student
- Duration: 90 minutes



Head to the Museum to learn how food gets from the farm to the dinner table. Students have fun while learning about food groups, a healthy diet and how to keep food safe. And to top it off, learn how good diet and an active lifestyle go hand in hand for a healthy body. (A-34)

BREAD SCIENCE

- Grades 1 to 3 (Cycle 1)
- \$6 per student
- Duration: 2 hours

With the help of the Little Red Hen, do all the steps to bake your own bread. Explore the texture, appearance and smells of bread ingredients. Investigate the needs, growth, and properties of wheat. Knead dough and stretch the gluten chains. Then watch the ways dough changes when it is cooked. This program has storytelling, hands-on experiments, and fresh bread to taste! (A-7)

FOOD CHAINS

- Grade 4 (Cycle 2)
- \$5 per student
- Duration: 90 minutes

On the man-made habitat that is the Museum's demonstration farm, explore the interrelationship between domestic and wild communities. In the barns, students study photosynthesis, the different links in a food chain, and rebuild the food chains and webs that they discover at the Museum. They come to realize that their lives depend on farm products and by-products, and identify some animals' diets by studying their dentition. (A-9)

Updated program with new activities!

"CHEWS" WISELY

- Grade 5 (Cycle 3)
- \$5 per student
- Duration: 90 minutes

Guar gum, annatto, fructose, carrageenan...foreign language? No, you've had them for lunch! Here students are given the tools necessary for making educational choices when it comes to food. They learn to decipher food labels and to recognize what nutrients their bodies need and in what foods they can be found. Their new knowledge is tested throughout the program, and they discover what impact physical activity may have on their body. Upon leaving the Museum, each student has in hand his or her personal program to a healthier life. (A-35)

PROPERTIES OF AND CHANGES IN MATTER: BREAD

- Grade 5 (Cycle 3)
- \$6 per student
- Duration: 2 hours

Starch gelatinization? Protein coagulation? There is a lot of science in a loaf of bread! Investigate the reversible and irreversible changes of the ingredients as you make bread to eat. Grind the wheat and examine its elements with a magnifying glass. Create a change of state by activating yeast. Knead the dough and feel the transformation of proteins into gluten chains. Discover how all of these different materials work together to create a useful and delicious food. This program is designed to stimulate kinesthetic, visual, and auditory learners. (A-16)

INTERMEDIATE AND SENIOR PROGRAMS

New!

PLANTING THE SEEDS OF A COUNTRY

- Grades 7 to 9 (Secondary 1 to 4)
- \$5 per student
- Duration: 90 minutes

Did you know that the development of Marquis wheat led to the success of the colonization of the prairies in Canada, and that the “Canadienne” cow descends from cattle breeds imported to New France from Normandy? During this program, students study Canadian history and geography through the development and expansion of agriculture. They learn how Canada’s “Experimental Farms” helped settlers to adapt to new regions, and discuss the current status of agriculture in Canada. (A-37)

ECOSYSTEMS AND AGRICULTURE

- Grades 7 to 10 (Secondary 1 to 4)
- \$5 per student
- Duration: 2 hours

Try your hand at solving some tricky agricultural issues as you trace the evolution of agriculture and its impact on ecosystems. Explore modern farming practices in pork and beef production and crop protection. Learn about sustainable agriculture while analyzing alternatives to pesticides. (A-17)

GENETICS AND SELECTIVE BREEDING

- Grades 9 and up (Secondary 4 and up)
- \$5 per student
- Duration: 2 hours

Be a dairy cow evaluator! Good genes are the single most important consideration for a dairy farmer. Analyze the physical traits of one of our cows. Fill out her “report card” and establish her weakest trait, then improve on this characteristic in her offspring by selecting the best bull from a breeder’s catalogue. Predict the genetic outcome of this cross and compare your answer to her actual records. (A-18)

“The educational kit was excellent and will be the basis for follow-up learning.”

Home schooling group
Ottawa, Ontario

“Evaluating cows and matching them to a bull was very interactive. It emphasized making up for weaker genes in cows.”

Grade 11 teacher
Ottawa, Ontario

GENERAL INFORMATION

Programs are available weekdays from September to June and are scheduled to start between 9:00 a.m. and 3:00 p.m. Some programs can be shortened to suit your requirements. All of our Educators are experts in adjusting the content to the level of your class.

Free Educational Resources

Educational **Activity Kits** that complement some of our school programs are now available online at agriculture.technomuses.ca.

Planning your visit

During your program, Museum Educators will encourage teachers and accompanying adults to participate and assist with programs. Please remember, the Museum is also a demonstration farm, complete with the miracle of new life and the potential hazards of large animals and working machinery. Supervision during free time or with an independent visit is essential to creating a safe and fun atmosphere at the Museum. Students and accompanying adults should also dress appropriately (for farm and weather conditions).

Reserving your visit

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

Three ways to request a program:

By telephone 613-991-3053 or 1-866-442-4416
By fax* 613-993-7923
By Internet [agriculture.technomuses.ca/
School Programs/Reservations](http://agriculture.technomuses.ca/SchoolPrograms/Reservations)

*For fax option, please print and fill out the form available on our website, agriculture.technomuses.ca (under "School Programs").

Space is limited—please reserve early!

Confirmation of your scheduled program will be sent by mail. For all school programs (excluding independent visits), a Museum Educator will call to help plan your visit and answer any questions about the schedule and special student needs.

Free visit preview

Teachers are welcome to visit the Museum, free of charge, by presenting proof of their teaching status at the Museum entrance.

Grade

Elementary (K–8 or Secondary 2)	6:1
Secondary (9 or Secondary 3 and up)	10:1

Ratio

We require the above student-adult ratios for student supervision when visiting the Canada Agriculture Museum. **Teachers and supervisors are expected to remain with their students at all times.**

Fees

Students: \$5, \$6, or \$10 per student depending on program

Accompanying Adults: \$1 per adult (excluding teachers)

Maximum group size varies according to the program. A minimum fee of \$80, \$100, or \$160 per group will be charged depending on the program. Payment may be made in advance or on arrival, by cash, credit card (VISA or MasterCard), debit card, or cheque made payable to the **Canada Agriculture Museum**. For cancellations, please give us as much advance notice as possible.

A **cancellation fee** of \$80 per program will be charged for cancellations made less than 48 hours before the scheduled start time of the program. In the case of school bus cancellation due to inclement weather, this fee will not apply if a school reschedules the cancelled program within the same school year. For a program cancelled with more than 48 hours notice, a \$20 administration fee will apply, unless the program is rescheduled within the same school year.

How to find us

The Canada Agriculture Museum is located on the Central Experimental Farm in Ottawa. The entrance to the Museum's free parking lot is on **Prince of Wales Drive**, south of the traffic circle. **All buses must use this entrance.**

