CANADA SCIENCE AND TECHNOLOGY MUSEUM

SCHOOL PROGRAMS
2013–2014

Preschool to Secondary School
sciencetech.technomuses.ca
The Museum’s school programs meet many learning objectives for students from preschool through Grade 10/Cycle 2 (secondary). Profiling how **science** and **technology** affect **society** and the **environment**, these programs have a unique Canadian perspective, and offer students rich opportunities to explore, discover, and appreciate scientific achievement, with links to curricula in **history**, the **social sciences**, and **math**, as well as **science** and **technology**.

### Ontario

#### Kindergarten

- Exploring Objects and Materials
- An Invisible Attraction
- Earth’s Daily and Seasonal Cycles

<table>
<thead>
<tr>
<th>Level</th>
<th>Structures and Mechanisms</th>
<th>Matter and Energy</th>
<th>Earth and Space Systems</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td><strong>Material Objects and Everyday Structures</strong></td>
<td>Energy in Our Lives</td>
<td>Daily and Seasonal Changes</td>
</tr>
<tr>
<td></td>
<td>Exploring Objects and Materials</td>
<td>Energy and Forces</td>
<td>Earth’s Daily and Seasonal Cycles</td>
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<td></td>
<td>Structures and Shapes</td>
<td>Curriculum Days</td>
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<td>Summer Fun Days</td>
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<td>2</td>
<td><strong>Movement</strong></td>
<td>Properties of Liquids and Solids</td>
<td>Air and Water in the Environment</td>
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<td></td>
<td>Science Seesaw and Simple Machines</td>
<td>Liquids and Solids</td>
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<td>3</td>
<td><strong>Strong and Stable Structures</strong></td>
<td>Forces Causing Movement</td>
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<tr>
<td></td>
<td>Structures and Shapes</td>
<td>Pushing and Pulling Forces</td>
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<td>Energy and Forces</td>
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<td>Curriculum Days</td>
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<tr>
<td>4</td>
<td><strong>Pulleys and Gears</strong></td>
<td>Light and Sound</td>
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</tr>
<tr>
<td></td>
<td>Pulleys and Gears: Wonderful Machines</td>
<td>Looking at Light</td>
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<td>Prime Science*</td>
<td>Sound Energy</td>
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<td>5</td>
<td>Forces Acting on Structures and Mechanisms</td>
<td>Properties of and Changes in Matter</td>
<td>Conservation of Energy and Resources</td>
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<td></td>
<td>Forces Acting on Structures Prime Science*</td>
<td>Properties of and Changes in Matter</td>
<td>Introduction to Electricity</td>
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<td>Zap, Zoom, Kaboom! Curriculum Days</td>
<td>Summer Fun Days</td>
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<tr>
<td>6</td>
<td>Electricity and Electrical Devices Introduction to Electricity The Many Faces of Energy</td>
<td>Flight Prime Science*</td>
<td>Space Probing the Skies</td>
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<td>Zap, Zoom, Kaboom! Curriculum Days</td>
<td>Summer Fun Days</td>
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<tr>
<td>7</td>
<td>Form and Function Forces Acting on Structures Canadian Inventions and Innovations</td>
<td>Pure Substances and Mixtures Substances, Mixtures, and Heat</td>
<td>Heat in the Environment Substances, Mixtures, and Heat</td>
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*In addition, Prime Science supports the Ontario mathematics curriculum for Grades 4, 5, and 6.

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<thead>
<tr>
<th>Level</th>
<th>Chemistry</th>
<th>Physics</th>
<th>Biology</th>
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</tr>
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<td>9</td>
<td>Criminal Science Investigation Science and Engineering Olympics</td>
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<td>Criminal Science Investigation Biotechnology Lectures Science and Engineering Olympics</td>
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Quebec

Kindergarten
Exploring Objects and Materials
An Invisible Attraction
Earth's Daily and Seasonal Cycles

Primary
Mathematics, Science and Technology

Science and Technology
Competency — To explore the world of science and technology
The Material World
Exploring Objects and Materials
Liquids and Solids
Pushing and Pulling Forces
Earth and Space
Earth's Daily and Seasonal Cycles
Summer Fun Days
Curriculum Days

Cycles 2 and 3
Mathematics, Science and Technology

Science and Technology
Competency 1 — To propose explanations for or solutions to scientific or technology problems
Competency 2 — To make the most of scientific and technological tools, objects, and procedures
The Material World
Structures and Shapes
Science Seesaw and Simple Machines
Looking at Light
Sound Energy
Pulleys and Gears: Wonderful Machines
Prime Science
Forces Acting on Structures
The Many Faces of Energy
Properties of and Changes in Matter
Introduction to Electricity
Zap, Zoom, Kaboom!
Earth and Space
Energy and Forces
Probing the Skies
Summer Fun Days
Curriculum Days

Social Sciences

Geography, History, and Citizenship Education
Competency 2 — Interpret change in a society and its territory
Browsing the Museum
Transportation Technologies
Canadian Inventions and Innovations to Discover
What Museums Do: Behind the Scenes

In addition, all of the Museum’s programs support the objective of Cycles 2 and 3, Competency 3 — To communicate in the languages used in science and technology.
Cycle 1

Science and Technology
Competency 1 — Seeks answers or solutions to scientific or technological problems
Competency 2 — Makes the most of his/her knowledge of science and technology

The Material World
Substances, Mixtures, and Heat
Amazing Fluids
Zap, Zoom, Kaboom!
Summer Fun Days

Earth and Space
Probing the Skies
Introduction to Electricity
Summer Fun Days

The Technological World
Canadian Inventions and Innovations to Discover
Forces Acting on Structures
Summer Fun Days

Cycle 2

Science and Technology
Competency 1 — Seeks answers or solutions to scientific or technological problems
Competency 2 — Makes the most of his/her knowledge of science and technology

The Material World
Electricity: Characteristics and Applications

The Living World
Criminal Science Investigation
Biotechnology Lectures

Earth and Space
Studying the Universe

Social Sciences

History and Citizenship Education
Competency 1 — Examines social phenomena from a historical perspective
Competency 3 — Constructs his/her consciousness of citizenship through the study of history

Browsing the Museum
Transportation Technologies
Canadian Inventions and Innovations to Discover
Coming of Age: Canada and the 1950s
What Museums Do: Behind the Scenes

In addition, all of the Museum's programs support the objective of Competency 3 — To communicate in the languages used in science and technology.
An exciting adventure in hands-on learning

The Museum’s programs and workshops are designed to inspire students and bring your curriculum to life. Support materials, available upon reservation, help you make the most of these unique educational experiences.

**Preschool to Grade 3 • Preschool to Cycle 2 (primary)**

**An Invisible Attraction**

Preschool to K  
Duration: 60 minutes

Explore the wonderful world of magnets in this hands-on workshop. Discover which materials are magnetic and which are not. Investigate the strengths of different magnets. Discover how to move an object using magnetic force, and learn the many ways in which magnets are used in our daily lives. (ST2)

**Earth’s Daily and Seasonal Cycles**

K to Grade 3 • K to Cycle 1 (primary)  
Duration: 60 minutes

What is our primary source of heat and light? How do Earth’s daily and seasonal cycles affect everyday life? Sun and Earth globes, and various activities, introduce concepts of heat, light, day, and night. Explore the changing seasons through hands-on activities in the Museum’s inflatable planetarium. (ST37)

**Exploring Objects and Materials**

K to Grade 3 • K to Cycle 1 (primary)  
Duration: 60 minutes

Can objects be made of more than one material? Use your senses to identify objects by how they look and feel. How do you make paper, plastic, and glass? Where do they come from? Hands-on activities illustrate how materials are produced, recycled, and how they can be fastened together to form objects. (ST4)

**Pushing and Pulling Forces**

Grades 1 to 3 • Cycle 1 (primary)  
Duration: 60 minutes

What happens when you push or pull an object? Hands-on activity stations illustrate how gravity, static, magnetic, and muscular forces cause objects to move. Apply different levels of force to objects and see them move, attract, repel, or change direction. Find out which forces are applied through direct contact and which interact at a distance. (ST51)
Liquids and Solids
Grades 1 to 3 • Cycle 1 (primary)
Duration: 60 minutes
Investigate the properties of materials through an exploration of liquids and solids. Probe the differences between the three states of matter, interactions between liquids of different densities, solids that dissolve in liquids, and buoyancy. Design a boat and see how much weight it can support. (ST5)

Energy and Forces
Grades 1 to 3 • Cycle 2 (primary)
Duration: 60 minutes
Explore the role that the Sun, air, and water play in energy production. Discover how these natural forces are harnessed and their impact on our everyday lives. Hands-on activities reinforce the understanding that everything that happens is the result of some form of energy. (ST8)

Science Seesaw and Simple Machines
Grades 1 to 3 • Cycle 2 (primary)
Duration: 60 minutes
Explore the principles of force and movement with this introduction to simple machines. Explore the terms work and load as you look at the basic principles of levers and inclined planes. Investigate a multitude of mechanical devices that have changed the way we live. (ST7)

Structures and Shapes
Grades 1 to 3 • Cycle 2 (primary)
Duration: 60 minutes
Experiment to discover the characteristics of different structures and how they are designed to meet specific needs. Try building a tower or bridging a river to learn which geometric shapes are the strongest. This workshop encourages students to use their problem-solving skills while building structures. (ST9)

Grades 4 to 8 • Cycle 2 (primary) to Cycle 1 (secondary)

Probing the Skies
Grades 4 to 6 • Cycle 2 (primary) to Cycle 1 (secondary)
Duration: 75 minutes
Explore the components of our Solar System — touch real meteorites and compare the relative size of planets and asteroids. See the motions of the planets, Sun, Moon, and constellations in the Museum’s inflatable planetarium, and discover their effects on cycles of day, night, seasons, and eclipses. See the tools of astronomy exploration in the Helen Sawyer Hogg Observatory. (ST10)

Introduction to Electricity
Grades 4 to 6 • Cycle 3 (primary) to Cycle 1 (secondary)
Duration: 75 minutes
What are current and static electricity? Discover how electrons move through an electrical conductor. Learn the role of simple circuit components and draw circuit diagrams. Use circuit boards to see how series and parallel circuits work, and how each is used. Measure the amount of electricity various light bulbs consume, and use devices that produce electricity. (ST13)

Looking at Light
Grades 4 to 6 • Cycle 3 (primary)
Duration: 75 minutes
Discover how light is produced and transmitted as you move through activity stations. Experiment with different materials to study reflection, refraction, and absorption. View the world through instruments such as microscopes, telescopes, periscopes, and kaleidoscopes, and use special filters to explore the world of colour. (ST12)
Properties of and Changes in Matter
Grades 4 to 6 • Cycles 2 and 3 (primary)
Duration: 75 minutes
Explore the properties of, and explain the changes in, the three basic states of matter through hands-on experimentation. Amusing scientific experiments and demonstrations illustrate the differences between reversible physical changes and non-reversible chemical reactions. (ST15)

Sound Energy
Grades 4 to 6 • Cycle 2 (primary)
Duration: 75 minutes
See, feel, and hear sound vibrations, echoes, and the absorption of sound energy with hands-on activities. Measure sound levels, create music with science, and learn how whales and other animals use pitch and loudness to communicate through water and air with sound. (ST16)

Pulleys and Gears: Wonderful Machines
Grades 4 to 6 • Cycles 2 and 3 (primary)
Duration: 75 minutes
Discover why pulleys, gears, the wheel, and the axle are such clever inventions, and how they reduce the force required to do work. Build gear trains using hands-on activity boards. Using model cranes, create a block and tackle to lift a heavy weight with minimal effort. Examine various applications of these devices as you discover pulleys and gears in everyday objects. (ST17)

The Many Faces of Energy
Grades 4 to 6 • Cycles 2 and 3 (primary)
Duration: 75 minutes
Discover the principle of energy conservation in this hands-on program. Experiment with devices that produce light, sound, and wind energy to identify energy transformations. Measure electrical energy consumption and discuss ways to consume less. What impact do renewable and non-renewable sources of energy have on our natural resources? What impact have developments in technology had on energy use in the home? (ST19)

Prime Science [New!]
Grades 4 to 6 • Cycle 2 (primary)
Duration: 75 minutes
Hands-on activities link measurement, geometry, and numeration to explore the science behind steam locomotives. Students investigate, calculate, and experiment with math and science surrounded by the Museum’s giant locomotives. This is a great option for math and science classes alike. (ST57)

Forces Acting on Structures
Grades 5 to 7 • Cycle 3 (primary) to Cycle 1 (secondary)
Duration: 75 to 90 minutes
Explore the concept of force in this hands-on workshop. Learn the difference between tension and compression, and the ways that simple machines can reduce the force necessary to move an object. Build load-bearing cantilever, suspension, and arch bridges, and test your construction using different loads. See a crushing machine in action as it tests different materials to spectacular failure! (ST38)

Zap, Zoom, Kaboom! [New!]
Beginning in January 2014
Grades 5 to 8 • Cycle 3 (primary) to Cycle 1 (secondary)
Duration: 60 minutes
Participate in experiments that are just too big for a classroom in this electrifying science show. Make a hypothesis, experiment with energy, matter, and mechanisms, and cast your vote as we journey through the scientific method. For groups of 50 to 200. (ST47)
Canadian Inventions and Innovations to Discover
Grades 5 to 8 • Cycle 3 (primary) to Cycle 1 (secondary)
Duration: 75 minutes
Take pride in your heritage as you learn about Canadian inventions, discoveries, and innovations. Take part in a challenging Museum treasure hunt, in which small groups explore, in depth, one of the many contributions made by Canadians to science and technology internationally. Follow up by designing a new product or service, and discover the steps involved in becoming an inventor. (ST45)

Substances, Mixtures, and Heat
Grade 7 • Cycle 1 (secondary)
Duration: 90 minutes
Explore concepts relating to substances, mixtures, and heat in the environment. Measure heat transfer through different materials such as plastic and metal. Identify the role of radiation in the heating and cooling of Earth through experiments. Learn about supersaturated solutions, and use a variety of techniques such as evaporation and magnetism to separate materials from one another. (ST52)

Amazing Fluids
Grade 8 • Cycle 1 (secondary)
Duration: 90 minutes
Discover the properties of oil, water, and alcohol, and explore the relationship between mass, volume, and density. What are the industrial applications of fluids? Determine the pH and quantity of dissolved chemicals in a variety of water samples. Test the effect of temperature on viscosity, use a hydraulic arm to move items, and explore the role fluids play in technologies. (ST53)

Electricity: Characteristics and Applications
Grades 9 and 10 • Cycle 2 (secondary)
Duration: 90 minutes
A hands-on introduction to electrostatics, circuits, and measuring devices. Use custom-designed activity boards to design, draw, and construct serial and parallel circuits. Use voltmeters and ammeters to learn about the various SI units of measurement, and to collect measurements on circuit boards. Explore electrical applications through an introduction to fuses, circuit-breakers, and Canadian safety procedures and codes. (ST35)

Criminal Science Investigation
Grades 9 and 10 • Cycle 2 (secondary)
Duration: 90 minutes
One of the conservators at the Museum has disappeared! Follow a trail of clues to determine what has happened. Discover how forensic science is used in real police investigations. Narrow the list of suspects through the use of fingerprinting, DNA testing, blood-splatter analysis, and more. (ST49)

Studying the Universe
Grades 9 to 11 • Cycle 2 (secondary)
Duration: 90 minutes
Learn about the life cycle of stars, from nebulae to black holes, galaxies, and beyond. Explore celestial motions in the Museum’s inflatable planetarium, use a telescope to safely observe the Sun (weather permitting), and visit Canada’s largest refracting telescope in the Helen Sawyer Hogg Observatory. (ST32)
Coming of Age: Canada and the 1950s
Grades 7 and up • Cycle 1 (secondary) and up
Duration: 60 minutes
Canadians experienced dramatic change following the Second World War. Nuclear technology gained momentum, and television forever altered how we share information. Explore the history of 1950s technologies, from medical equipment to Space satellites, and consider their social implications. This program contains strong links to secondary history curricula (such as Ontario’s Canadian History since World War I — CHC2D/CHC2P). (ST55)

Browsing the Museum
All levels
Duration: 60 minutes
Explore the Museum’s main attractions and discover lesser-known treasures from the collection. This guided program provides participants with an overview of the amazing artifacts that the Museum has on display. Marvel at the fascinating technologies, past and present, that have shaped Canadian society. (ST24)

Transportation Technologies
All levels
Duration: 60 minutes
Gear up for excitement as you navigate Canada’s transportation history. Climb aboard a steam locomotive, and learn how Canada’s unique landscape and climate influenced innovations in transportation technologies. Explore a variety of automobiles, discover the impact cars have had in our culture, and decide for yourself what makes a car “Canadian.” (ST56)
Virtual Programs
Free online classroom resources for teachers

Astronomy
Activities for Grades 2 to 12 • Cycle 1 (primary) to Cycle 2 (secondary)
Discover the wonders of the night sky. Observe how Earth’s movement influences our daily rituals, the changing of seasons, and the environment as a whole. Learn about the technologies that make modern astronomy possible.

Cycle-ology
Activities for Grades 4 to 6 • Cycles 2 and 3 (primary)
Explore a variety of scientific concepts by examining the common bicycle. Discover why and how bicycles have changed over time — evolving from recreational pastime, to common mode of transportation, to ultimate fitness machine.

Canadian Science and Engineering Hall of Fame
Activities for Grades 4 to 7 • Cycle 2 (primary) to Cycle 1 (secondary)
Discover the stories of remarkable Canadians who have overcome obstacles, making great strides in science and engineering. See how Canada’s environment, culture, and heritage have spurred technological and scientific achievements.

Weather Wise
Activities for Grades 4 to 7 • Cycle 2 (primary) to Cycle 1 (secondary)
Increase your awareness of global warming’s consequences. Explore common elements of weather, the greenhouse effect, and climate change. Discover how you can help to slow the production of greenhouse gases, and the resulting environmental damage.

The Science of Sports
Activities for Grades 4 to 7 • Cycle 2 (primary) to Cycle 1 (secondary)
Discover the underlying science concepts behind your favourite sports. Learn about the role of the organ systems during physical activity, the forces involved in movements, and the energy necessary to play and fuel the body. Apply your science theory to physical activities.

Transportation, Energy, and the Environment
Activities for Grades 9 to 12 • Cycle 2 (secondary)
Put scientific and technological theory into practice. Engage with contemporary issues surrounding transportation and energy. This program was developed in partnership with Transport Canada’s ecoTECHNOLOGY for Vehicles program.

Check out free online resources offered by affiliate Museums:
Canada Agriculture and Food Museum
agriculture.technomuses.ca/english/schoolprograms/index.cfm
Canada Aviation and Space Museum
aviation.technomuses.ca/schoolzone/teacher_info
Special School Programs and Events

Celebrate National Science and Technology Week in Canada

October 18 to 27, 2013
October 17 to 26, 2014

National Science and Technology Week Lectures
Grades 9 and up • Cycle 2 (secondary) and up
October 22 and 23, 2013

Enjoy one of the Museum’s exciting lectures celebrating science and technology in Canada. A perfect opportunity for students to explore potential careers in science, while supplementing your science curriculum! (The full schedule will be available online in September 2013.) While at the Museum, take part in the “Science Trail Challenge,” a scavenger hunt that tests students’ knowledge of Canadian inventions and innovations.

Curriculum Days
Grades 1 to 6 • Cycles 1 to 3 (primary)
November 5 to 8, 12 to 15, and 19 to 22, 2013

Curriculum Days workshops complement the Museum’s regular school programs, and are the perfect way to introduce or review your science units. Students take part in two 40-minute hands-on workshops geared specifically to their grade level. Each workshop includes a 10-minute introduction on a specific topic, followed by 30 minutes of hands-on exploration. (ST26)

Science and Engineering Olympics
Grades 7 and up • Cycle 1 (secondary) and up
February 19, 2014

This fun, hands-on, cross-curricular competition is designed to inspire students to consider careers in various science and engineering disciplines. Students work in teams, in one of six events, to conceptualize, create, design, build, and test their projects. On Olympics Day, teams bring their entries for testing before a panel of judges.

What Museums Do: Behind the Scenes
Grades 5 and up • Cycle 3 (primary) and up
October 24, 2013 — National Science and Technology Week
May 16, 2014 — International Museums Day

Did you know that less than 2% of the Museum’s collection is on display at any one time? Go behind the scenes and find out what exciting work is being done. Discover how artifacts are collected, restored, preserved, and stored as you visit the reserve collection and meet the people who work there. Learn what the collection reveals about the transformation of Canada. Reserve early — spaces are limited. (ST54)

Reservations: 613-991-3053 or 1-866-442-4416
Biotechnology Lectures

Grades 9 and up • Cycle 2 (secondary) and up
May 6 and 7, 2014

Don’t miss the Museum’s popular Biotechnology Lecture Series, featuring two days of dynamic presentations by Canadian researchers and scientists. (The full lecture schedule will be available online in February 2014.) This annual lecture series is an opportunity for high school students to engage with prominent researchers and explore science, technology, and their impact on society.

Summer Fun Days

Grades 1 to 8 • Cycle 1 (primary) to Cycle 1 (secondary)
June 9 to 13, 16 to 20, and June 23 and 24, 2014

Back by popular demand! End your school year at the Museum, and have your students participate in a range of hands-on activities and dynamic presentations. Experiment with with movie-making, chromatography, crime-solving, roller coaster building, rocket-launching, and more! (ST28)

For Teachers

Discover the Museum Days

Faculties of education, co-ordinators, and principals: help teachers rediscover the Museum as a teaching resource. Free sessions at the Museum are available for groups of 20 or more teachers who also book a guided tour of the Museum. Sessions familiarize teachers with the Museum’s exhibitions, programs, online resources, and educational services (available September to January).

Teacher Appreciation Evening

Wednesday, October 23, 2013, 5:30 p.m. – 7:30 p.m.

Teachers enjoy an exclusive after-hours visit to the Museum to explore the newest exhibitions and activities. Learn about the Museum’s school offerings and teacher resources available for all grades.

If you would like to be invited to this and other teacher events, please email education@technomuses.ca.

scincetech.technomuses.ca
Programs are available weekdays from September 24, 2013, to June 24, 2014, and are scheduled between 9:15 a.m. and 5 p.m. Please note that the Museum is closed September 9 to 13, 2013.

**Planning Your Visit**

We strongly recommend the following ratios for student supervision (by adults) when visiting the Museum.

<table>
<thead>
<tr>
<th>Level</th>
<th>Student-Adult Ratio</th>
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<tbody>
<tr>
<td>Preschool to Grade 8 • Preschool to Cycle 1 (secondary)</td>
<td>10 : 1</td>
</tr>
<tr>
<td>Grades 9 and up • Cycle 2 (secondary) and up</td>
<td>15 : 1</td>
</tr>
</tbody>
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During programs, Museum educators encourage teachers and accompanying adults to participate and assist. Proper supervision during free time is also essential to creating a safe and fun atmosphere at the Museum. **Teachers and supervisors are expected to remain with their students at all times.** Teachers may preview the Museum at any time at no cost by presenting proof of their teaching status at the admission desk.

**Reservations**

Please reserve as early as possible to avoid disappointment. We recommend a **minimum of one month** in advance.

**Four ways to request a program:**

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

- **By fax**
  
  613-993-7923

- **By Internet**
  
  sciencetech.technomuses.ca “School Zone”

- **By email**
  
  cts@technomuses.ca

Confirmation of your scheduled program will be sent to you via the means by which you registered. It is helpful to prepare your students for the program using the pre-visit package that will be sent to you.

**Space is limited — please reserve early!**

### Program Fees

<table>
<thead>
<tr>
<th>Program</th>
<th>Fee per Student (taxes included)</th>
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<tbody>
<tr>
<td><strong>Regular Programs</strong></td>
<td>$7</td>
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<tr>
<td><strong>Guided Tours of Exhibitions</strong></td>
<td>$8</td>
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**Workshops**

- Amazing Fluids: $8
- Electricity: Characteristics and Applications: $8
- Studying the Universe: $8
- Criminal Science Investigation: $8
- Substances, Mixtures, and Heat: $8

**Time-Limited Programs**

- Biotechnology Lectures: $6
- Curriculum Days: $7
- Summer Fun Days: $7
- What Museums Do*: $8

*Due to the nature of this program, groups must have a minimum of one adult supervisor per 10 students; maximum group size: 25 participants (larger groups can be divided).

**Minimum Fees**

A minimum fee of $140 or $160 per group will be charged, depending on the program.

**Method of Payment**

Fees may be prepaid or paid upon arrival, by cash, credit card, or cheque made payable to the **Canada Science and Technology Museum**.

**Cancellation Fees**

For cancellations with more than 48 hours notice, a $30 administration fee will apply unless the program is rescheduled within the same school year. No refunds for cancellations with less than 48 hours notice.

sciencetech.technomuses.ca

Canada Science and Technology Museum

1867 St Laurent Boulevard

P.O. Box 9724, Station T

Ottawa, Ontario K1G 5A3

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**Let’s Talk Energy — Engaging Ideas for Canada’s Future**

This national multi-year initiative explores Canada’s energy production, distribution, and consumption, and the greening of the country’s energy network. School programs featuring this symbol are components of this initiative.