

MUSEUM GALLERIES / SCIENCE GALLERY / PLANETARIUM

SCHOOL

PROGRAMS

2018-2019

School Programs Presented By

THE
Great-West Life
ASSURANCE COMPANY

STRONGER COMMUNITIES TOGETHER™

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ManitobaMuseum.ca/education/



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Choose from over 40 curriculum-based history and science programs
at ManitobaMuseum.ca/education/. Book your program online or call **204-988-0626**.



We are your one-stop shop for an exciting day of school programs in the Museum Galleries, Science Gallery, and Planetarium. Our more than 40 programs in English and French cover a wide variety of curriculum points from Kindergarten to Grade 12. You can use this PDF to plan your visit, or you can get a list of programs designed for your grade level using the [School Programs Search Tool](#) on our website. You can fill out our [Online Booking Form](#) or you can call our programs office at 204-988-0626.

- Guided Museum Programs include the opportunity to explore the Museum Galleries on your own.
- Science Demonstrations are 30 minutes long and include 60 minutes to explore the Science Gallery.
- One adult supervisor is admitted free for every six students.
- To [Explore all Day & Save](#), visit our website or this Guide for program bundle ideas.
- Free lunchroom space is available on request.

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School Programs Supported By



STEINBACH CREDIT UNION

KINDERGARTEN		
MUSEUM PROGRAMS	PRICE	LENGTH
Dinosaur World	\$4.50	60 minutes
Nonsuch Gallery Tour	\$4.50	60 minutes
Similarities and Differences	\$4.50	60 minutes
Museum Galleries Self-Guided Visit*	\$4.00	unlimited
SCIENCE GALLERY PROGRAMS		
Colours of Science Demonstration (includes self-guided visit)	\$4.50	90 minutes
Science Gallery Self-Guided Visit	\$4.00	60 minutes
PLANETARIUM PROGRAMS		
The Alien Who Stole Christmas (December only)	\$4.50	45 minutes
In My Backyard with Fred Penner	\$4.50	45 minutes
What's Up?	\$4.50	45 minutes

GRADE 1		
MUSEUM PROGRAMS	PRICE	LENGTH
Dinosaur World	\$4.50	60 minutes
Nonsuch Gallery Tour	\$4.50	60 minutes
Similarities and Differences	\$4.50	60 minutes
Museum Galleries Self-Guided Visit	\$4.00	unlimited
SCIENCE GALLERY PROGRAMS		
Sensational Science Demonstration (includes self-guided visit)	\$4.50	90 minutes
Science Gallery Self-Guided Visit	\$4.00	60 minutes
PLANETARIUM PROGRAMS		
The Alien Who Stole Christmas (December only)	\$4.50	45 minutes
In My Backyard with Fred Penner	\$4.50	45 minutes
What's Up?	\$4.50	45 minutes

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- Science Demonstrations are 30 minutes and include 60 minutes to explore the Science Gallery.
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BUNDLE YOUR PROGRAMS FOR AN INSPIRING ALL-DAY ADVENTURE

Fill your buses with more than one class, stay all day, and save! Here are suggested bundles, but we can create custom bundles that will best suit the needs of your students.

Grade K \$12.50/student
 Colours of Science (demonstration)
 Science Gallery Self-Guided Visit
 What's Up (planetarium show)
 Dinosaur World (program)

Grade 1 \$8.50/student
 Sensational Science (demonstration)
 Science Gallery Self-Guided Visit
 Similarities & Differences (museum program)
 Museum Self-Guided Visit

*We are renewing the Urban Gallery and creating a new Winnipeg Gallery this year. Please call to see if your program will be affected on the day you are interested in booking.

GRADE 2		
MUSEUM PROGRAMS	PRICE	LENGTH
Dinosaur World	\$4.50	60 minutes
Growth and Changes in Animals	\$4.50	60 minutes
Nonsuch Gallery Tour	\$4.50	60 minutes
Our Community	\$4.50	60 minutes
Museum Galleries Self-Guided Visit*	\$4.00	unlimited
SCIENCE GALLERY PROGRAMS		
State Your Properties Demonstration (includes self-guided visit)	\$4.50	90 minutes
Science Gallery Self-Guided Visit	\$4.00	60 minutes
PLANETARIUM PROGRAMS		
The Alien Who Stole Christmas (December only)	\$4.50	45 minutes
Perfect Little Planet	\$4.50	45 minutes
What's Up?	\$4.50	45 minutes

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Grade 2 \$8.50/student
 Our Community (program)
 Museum Self-Guided Visit
 State Your Properties
 (science demonstration)
 Science Gallery Self-Guided Visit



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GRADE 3		
MUSEUM PROGRAMS	PRICE	LENGTH
Explore Ancient Egypt	\$4.50	60 minutes
Growth and Changes in Plants	\$4.50	60 minutes
Inuit: People of the North	\$4.50	60 minutes
Nonsuch Gallery Tour	\$4.50	60 minutes
Museum Galleries Self-Guided Visit*	\$4.00	unlimited
SCIENCE GALLERY PROGRAMS		
Forces that Attract and Repel Demonstration (includes self-guided visit)	\$4.50	90 minutes
Science Gallery Self-Guided Visit	\$4.00	60 minutes
WORKSHOPS		
Lapidary Workshop	\$5.25	90 minutes
PLANETARIUM PROGRAMS		
The Alien Who Stole Christmas (December only)	\$4.50	45 minutes
Perfect Little Planet	\$4.50	45 minutes
The Sky Tonight	\$4.50	45 minutes

GRADE 4		
MUSEUM PROGRAMS	PRICE	LENGTH
First Peoples of Manitoba	\$4.50	60 minutes
Inuit: People of the North	\$4.50	60 minutes
Nonsuch Gallery Tour	\$4.50	60 minutes
Rocks, Minerals and Fossils	\$4.50	60 minutes
Museum Galleries Highlight Tour*	\$4.50	60 minutes
Museum Galleries Self-Guided Visit*	\$4.00	unlimited
SCIENCE GALLERY PROGRAMS		
Sound Science Demonstration (includes self-guided visit)	\$4.50	90 minutes
Science Gallery Self-Guided Visit	\$4.00	60 minutes
WORKSHOPS		
The Amazing Light Show and Workshop	\$5.25	1 h 45 minutes
Lapidary Workshop	\$5.25	90 minutes
PLANETARIUM PROGRAMS		
The Alien Who Stole Christmas (December only)	\$4.50	45 minutes
Perfect Little Planet	\$4.50	45 minutes
Season of Light (December only)	\$4.50	45 minutes
The Sky Tonight	\$4.50	45 minutes

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Grade 3 \$8.50/student
 Explore Ancient Egypt (museum program)
 Museum Self-Guided Visit
 Forces that Attract and Repel (science demonstration)
 Science Gallery Self-Guided Visit

Grades 3-5 \$9.25/student
 Inuit People of the North (museum program)
 Lapidary Workshop
 Museum Self-Guided Visit

Grade 4 \$9.25/student
 Rocks, Minerals and Fossils (museum program)
 Lapidary Workshop
 Museum Self-Guided Visit

Grade 4 \$9.25/student
 The Amazing Light Workshop
 Sound Science (science program)
 Science Gallery Self-Guided Visit

GRADES 5-6		
MUSEUM PROGRAMS	PRICE	LENGTH
Canada: An Emerging Nation (grade 6)	\$4.50	60 minutes
Exploring the Fur Trade (grade 5)	\$4.50	60 minutes
First Peoples of Manitoba (grade 5)	\$4.50	60 minutes
Inuit: People of the North (grade 5)	\$4.50	60 minutes
Manitobans and World War II (grade 6)	\$4.50	60 minutes
Nonsuch Gallery Tour	\$4.50	60 minutes
Museum Galleries Highlight Tour*	\$4.50	60 minutes
Museum Galleries Self-Guided Visit*	\$4.00	unlimited
SCIENCE GALLERY PROGRAMS		
Electrifying Science Demonstration (includes self-guided visit) (grade 6)	\$4.50	90 minutes
Forces and Simple Machines Demonstration (includes self-guided visit) (grade 5)	\$4.50	90 minutes
Physical and Chemical Changes Demonstration (includes self-guided visit) (grade 5)	\$4.50	90 minutes
Science Gallery Self-Guided Visit	\$4.00	60 minutes
WORKSHOPS		
Lapidary Workshop	\$5.25	90 minutes
The Solar System Workshop (grade 6)	\$5.25	1h 45 minutes
PLANETARIUM PROGRAMS		
Astronaut	\$4.50	45 minutes
LIFE: A Cosmic Story (grade 6)	\$4.50	45 minutes
The Search for Life: Are We Alone?	\$4.50	45 minutes
Season of Light (December only)	\$4.50	45 minutes
The Sky Tonight	\$4.50	45 minutes

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Grade 5 **\$12.50/student**

Exploring the Fur Trade
(museum program)
Nonsuch Gallery Tour
First Peoples of Manitoba
(museum program)
Museum Self-Guided Visit

Grade 6 **\$12.75/student**

Solar System Workshop
Science Gallery Self-Guided Visit
Astronaut (planetarium show)

Grade 6 **\$8.50/student**

Canada an Emerging Nation
(museum program)
Manitoba and World War II
(museum program)
Museum Self-Guided Visit

GRADES 7-8		
MUSEUM PROGRAMS	PRICE	LENGTH
Ancient Societies (grade 8)	\$4.50	60 minutes
Earth's Crust (grade 7)	\$4.50	60 minutes
Nonsuch Gallery Tour	\$4.50	60 minutes
Mummies (grade 8)	\$4.50	60 minutes
Museum Galleries Highlight Tour*	\$4.50	60 minutes
Museum Galleries Self-Guided Visit*	\$4.00	unlimited
SCIENCE GALLERY PROGRAMS		
Lake Winnipeg: Shared Solutions (guided program)	\$4.50	60 minutes
Science Gallery Self-Guided Visit	\$4.00	60 minutes
WORKSHOPS		
Ancient Societies (with pottery workshop) (grade 8)	\$5.25	90 minutes
Lapidary Workshop	\$5.25	90 minutes
PLANETARIUM PROGRAMS		
Astronaut	\$4.50	45 minutes
Cell! Cell! Cell! (grade 8)	\$4.50	45 minutes
Exploring the Universe	\$4.50	45 minutes
Ice Worlds	\$4.50	45 minutes
LIFE: A Cosmic Story	\$4.50	45 minutes
The Search for Life: Are We Alone?	\$4.50	45 minutes
Season of Light (December only)	\$4.50	45 minutes

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Grade 7 \$9.25/student
 The Earth's Crust (museum program)
 Lapidary Workshop
 Museum Self-Guided Visit

Grade 8 \$9.25/student
 Ancient Societies Workshop
 Mummies (museum program)
 Museum Self-Guided Visit

Grade 8 \$12.00/student
 Lake Winnipeg: Shared Solutions
 (guided science program)
 Science Gallery Self-Guided Visit
 Cell! Cell! Cell! (planetarium show)

GRADES 9-12		
MUSEUM PROGRAMS	PRICE	LENGTH
Company of Adventurers (HBC) (grade 11)	\$4.50	60 minutes
Manitobans and World War II (grade 11)	\$4.50	60 minutes
Nonsuch Gallery Tour	\$4.50	60 minutes
Son of a Gunn: An HBC Mystery (grade 11)	\$4.50	60 minutes
Museum Galleries Highlight Tour*	\$4.50	60 minutes
Museum Galleries Self-Guided Visit*	\$4.00	unlimited
SCIENCE GALLERY PROGRAMS		
Lake Winnipeg: Shared Solutions (guided program)	\$4.50	60 minutes
Science Gallery Self-Guided Visit	\$4.00	60 minutes
PLANETARIUM PROGRAMS		
Astronaut	\$4.50	45 minutes
Cell! Cell! Cell!	\$4.50	45 minutes
Exploring the Universe	\$4.50	45 minutes
Ice Worlds	\$4.50	45 minutes
LIFE: A Cosmic Story	\$4.50	45 minutes
The Search for Life: Are We Alone?	\$4.50	45 minutes
Season of Light (December only)	\$4.50	45 minutes

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BUNDLE YOUR PROGRAMS FOR AN INSPIRING ALL-DAY ADVENTURE

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Grades 9-12 \$12.50/student

Lake Winnipeg: Shared Solutions (guided science program)
 Science Gallery Self-Guided Visit
 Exploring the Universe (planetarium show)

Grades 9-12 \$12.50/student

Son of a Gunn: An HBC Mystery (museum program)
 Company of Adventurers (museum program)
 Nonsuch Gallery Tour
 Museum Self-Guided Visit

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A **The Alien Who Stole Christmas (grades K–4) (December only)** **Trailer PL**

It's Christmas Eve, but Santa's in a flying saucer instead of his sleigh! Will Christmas ever be the same? This fun holiday show uses Santa's trip to visit all of the planets in the solar system, and describes the conditions on each. A tour of the winter constellations is included.

The Amazing Light Show and Workshop (grade 4) PL W

This two-part program is based on the Grade 4 "Light" cluster of the Manitoba Science Curriculum. Inside the planetarium, students participate in a talk-show style program, learning the basic concepts of light from such guests as Sir Isaac Newton and roving reporters throughout the solar system. After the show, students head into the workshop for hands-on experimentation with lenses and mirrors. As part of the program, each student makes their own kaleidoscope to take home.

Ancient Societies (grade 8) M W

Students answer the question "What is a society?" using ten basic characteristics as a guide. Ancient North American societies, such as Cahokia, are explored. The characteristics of societies are made relevant during a museum scavenger hunt. Add on an optional 30-minute pottery activity and students can enjoy creating their own version of a historical Manitoba pot.

Astronaut (grades 5–12) Trailer PL

The exploration of space is the greatest journey humanity has ever undertaken. What does it take to be part of the journey? What does it take to be... an astronaut? Feel the excitement of a space launch, experience astronaut training, and discover the dangers and opportunities of space exploration. Narrated by Ewan McGregor (*Obi-Wan Kenobi* in the *Star Wars*™ prequels).

C **Canada: An Emerging Nation (grade 6) M**

Using photographs, artifacts and a tour of the Urban and Parklands Galleries, students explore the social, political and economic changes that occurred from 1914 to 1939 with a local focus. Defining events such as World War I, the 1919 Winnipeg General Strike, the Great Depression, and the women's rights movement are included.

Cell! Cell! Cell! (grades 8–12) PL

Explore the scientific story of the trillions of cells that form our bodies. With the help of humorous characters, students learn how the human body grows from a single cell. This program has strong curriculum connections to the Grade 8 "Cells and Systems" cluster of the Manitoba Science Curriculum. A brief astronomy-based introduction to the current night sky is included.

Colours of Science (Kindergarten) SG

This demonstration introduces the scientific method to Kindergarten students; encouraging them to ask questions, form hypotheses, and make observations. Students learn about primary and secondary colours, including how secondary colours are formed. Experiments with prisms, liquid rainbows, UV beads, and silent "fireworks" help to reinforce the outcomes of the "Colours" cluster of the Manitoba Science Curriculum. This 90-minute program includes a 30-minute demonstration and 60 minutes of self-guided time in the Science Gallery.

Company of Adventurers (grade 11) M

Starting with a big picture perspective, students gain an appreciation for how and why the fur trade period is as significant for us today as it was for the people who lived it. This Hudson's Bay Company (HBC) Gallery tour takes students from a trapper's base camp to beaver hat making. An examination of artifacts engages students in thinking about, not only how objects were traded, but how ideas and technologies were exchanged between Europeans and First Nations.

D **Dinosaur World (grades K–2) M**

Do your students have what it takes to be a Junior Paleontologist? This hands-on program has students testing their knowledge as they try to identify different fossils. Drama activity help students understand how fossils are created. Students will then discover treasures during a tour of the Earth History Gallery.

E **Earth's Crust (grade 7) M**

The formation of rocks is examined while students sort rocks into three types – igneous, sedimentary, and metamorphic. In the Earth History Gallery, students are introduced to mining in Manitoba, the properties of a beautiful variety of minerals, and how minerals are essential in our lives. Our award-winning digital *Ancient Seas* exhibit illustrates how fossils found in Manitoba support the theory of plate tectonics.

M = Museum Galleries **PL** = Planetarium
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Electrifying Science (grade 6) SG

This program supports the Grade 6 “Electricity” cluster by demonstrating what electricity is and what it can do. Students discover how batteries work and see how electrical and magnetic fields interact by attraction or repulsion. See how electricity brightens our world! This 90-minute program includes a 30-minute demonstration and 60 minutes of self-guided time in the Science Gallery.

Explore Ancient Egypt (grade 3) M

Come explore ancient Egypt and examine a full-size reproduction of a tomb wall, try everyday ancient Egyptian objects such as an Egyptian pillow and a scribe palette, or even try on some Egyptian clothing. Students will “Mummify” a classmate in an interactive demonstration and then mummify a carrot to take back to school.

Exploring the Fur Trade (grade 5) M

Visual clues introduce students to the big picture of the fur trade from its beginnings to the present day. A tour of the HBC Gallery brings to light the mechanics of the fur trade from a trapper’s base camp to beaver hat making. A hands-on artifact study demonstrates how technologies, objects, and ideas were exchanged between both Europeans and First Nations people.

Exploring the Universe (grades 7–12) PL

Take a trip from the Earth to the edge of the known Universe in the planetarium. Students tour the solar system, explore the Milky Way Galaxy, and see how even our galaxy is only one of billions in the cosmos. This show supports the Grade 9 “Exploring the Universe” cluster, but is applicable to a wide range of ages. (This newly-updated program replaces the former “Wonders of the Universe” show.)

F First Peoples of Manitoba (grades 4–5) M

Learn the importance of bison hunting, trade, agriculture, and fishing in the traditional lives of the First Nations of the Plains. See how bison hunting changed with the arrival of the horse and guns. Student will explore the inside of the tipi and examine tools designed to prepare hides into useful materials. They will then use that information and build a model tipi.

Forces and Simple Machines (grade 5) SG

Students use their existing knowledge of common forces (including gravity, magnetism, and centripetal force) to explore the concept of balanced and unbalanced forces. Students participate in demonstrations that utilize simple machines to learn how forces act in relation to one another. Electromagnets and water “roller coasters” make this a truly captivating demonstration! This 90-minute program includes a 30-minute demonstration and 60 minutes of self-guided time in the Science Gallery.

Forces that Attract and Repel (grade 3) SG

This demonstration introduces students to the different forces that surround them. Students learn to define forces as a push or a pull, and participate in activities that demonstrate the forces of gravity, magnetism, and electricity. An electromagnet and Van der Graff generator are used for some spectacular demonstrations. This 90-minute program includes a 30-minute demonstration and 60 minutes of self-guided time in the Science Gallery.

G Growth and Changes in Animals (grade 2) M

Go on a nature walk through our Museum Galleries and identify local mammals, birds, fish, reptiles, and amphibians. Discover what these animals eat and explore the environments where they live. Students learn interesting facts about animal behaviours and how the young and mature animals differ.

Growth and Changes in Plants (grade 3) M

Why do we need plants, and what do plants need to survive? Tour the Museum Galleries and learn how plants adapt to different environments and how they are both useful and harmful to humans. Smell, touch, and compare various specimens.

I Ice Worlds (grades 7–12) Trailer PL

Ice shapes our planet Earth, and many other planets and moons in our solar system. It drives the climate, affects ocean currents, and reshapes the land. Melting ice caused by climate change is also transforming our way of life. Explore these changes and see how our observations of other worlds helps us to further understand our own as well.

In My Backyard with Fred Penner (grades K–1) Trailer PL

This favorite program returns! Sing and clap along with Fred Penner on the Planetarium screen as he explores the stars and discovers the Moon and planets from his backyard. Supports multiple clusters of the Kindergarten and Grade 1 science curriculum, and includes the songs, “*In My Backyard*,” “*What Do You See When You Look at the Moon?*” and “*Planet Rap*.”

Inuit: People of the North (grades 3–5) M

Learn about the resourcefulness of Inuit culture and their use of skin, stone, bone, and snow. Investigate hands-on artifacts such as the ulu, kudlik, and bow drill. Venture into the Arctic Gallery and examine the flora and fauna of this region and see more examples of traditional clothing, weapons, toys, and tools.

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L **Lake Winnipeg: Shared Solutions (grades 7–12)** **SG**
 Lake Winnipeg has a problem, and we need you to help fix it! This program explores the role of excess phosphorous on the Lake Winnipeg ecosystem. An award-winning computer simulation helps students explore the many sources of phosphorus, and experiment with possible solutions to create positive change. Students also spend time at the Stream Table, experimenting with water dynamics. Supports the Grade 8 “Water Systems” cluster of the Manitoba Science Curriculum, but is applicable to many grades covering environmental issues.

Lapidary Workshop (grades 3–12) **W**
 Students come to appreciate the level of skill required of an Inuit artisan by shaping and polishing their own soapstone pendant to take home. Drawing from traditional and present day objects students learn about the different uses of soapstone in both its practical and symbolic functions, its physical properties, and Moh’s hardness scale.

LIFE: A Cosmic Story (grades 6–12) **PL** **NEW**
 This planetarium show addresses the big question: How did life on Earth begin? Students witness key episodes in the 13.7-billion-year history of the Universe that have made life on Earth possible, from the first stars to the formation of Earth’s atmosphere, leading up to the incredible diversity of life on Earth today. This show supports the Grade 6 “Exploring the Universe” and “Diversity of Living Things” science clusters, and fits with courses which study biology, evolution, or life sciences.

M **Manitoba Skies (grades 3–6)** **PL**
 This live planetarium presentation portrays celestial objects and events that can be seen in the night skies over Manitoba. Learn the basics of finding your way around the night sky with the constellations, and discover the Moon and the planets of our solar system. Because the night sky changes with time, some content is unique for the date it is booked.

Manitobans and World War II (grades 6, 11) **M**
 An introduction highlights Manitoba’s and Canada’s involvement in World War II and program topics include the war effort, the changing role of women, effects on the economy, and social issues. Students examine evidence at six stations, which include primary sources such artifacts, documents, photos, and even a reproduction flight jacket and aviator goggles that students can try on.

Mummies (grade 8) **M**
 Students learn about ancient Egyptian beliefs and culture, see authentic ancient Egyptian artifacts, participate in a simulated mummification of a life-size manikin, and mummify their own carrot to take home. This program takes place in our Ancient Egypt learning studio.

Museum Galleries Highlight Tour (grades 4–12)* **M**
 Discover the natural and human history of Manitoba with the aid of an interpreter. The tour highlights the Museum’s most significance exhibits by bringing them to life through storytelling, discussion, presentation, specimen, or artifact handling and asking open-ended questions for further interpretation.

Museum Galleries Self-Guided Visit (grades K–12)* **M**
 Journey through nine galleries: Orientation, Earth History, Arctic/Sub Arctic, Boreal Forest, Nonsuch, HBC, Parklands/ Mixed Woods, Grasslands, and Urban (representing Winnipeg in 1920). Plan your own program.

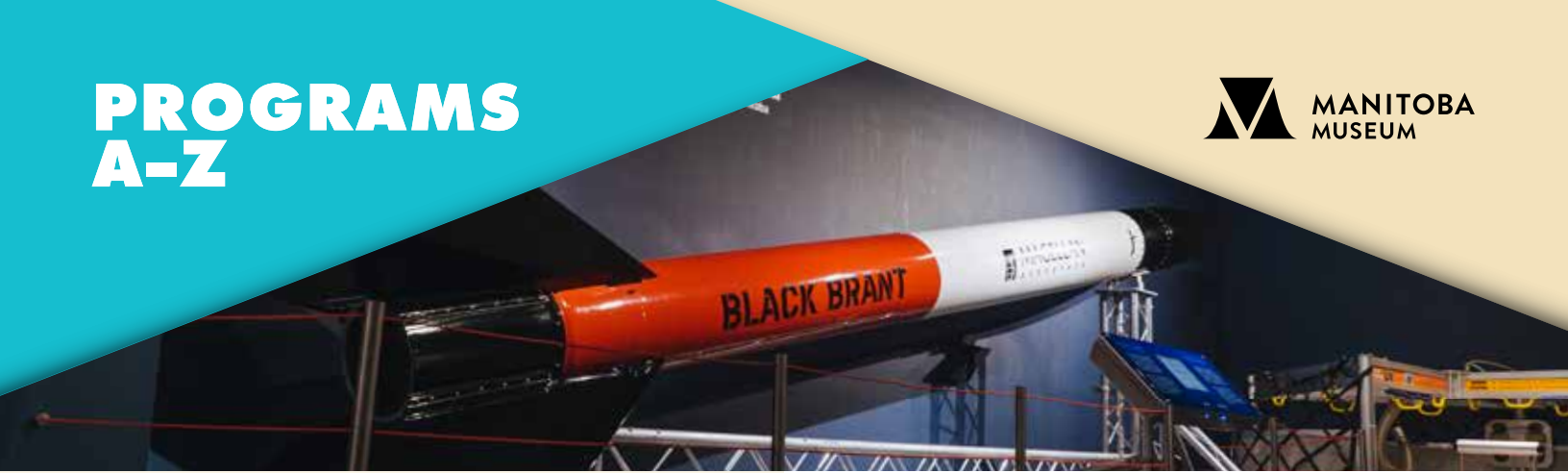
N **Nonsuch Gallery Tour (grades K–12)** **M**
 Travel back in time to 1669 in our recently renewed Nonsuch Gallery. Find out why the Boreal Forest was so important to the early fur trade, and hear what it was like for the Cree of Hudson Bay when they first met the 17th-century *Nonsuch* sailors. Visit Deptford, England after a winter of trade, and discover the story of the ship that launched the Hudson’s Bay Company.

O **Our Community (grade 2)*** **M**
 Share stories of Winnipeg’s past as we travel back in time. Students learn that Winnipeg has grown and changed over time as they help build a map of our community. Explore different community groups and identify the resources and services that were available to them. Students take a tour of the Urban Gallery and see how the community of Winnipeg has changed from almost 100 years ago. (Please call for availability pending gallery renewal and special exhibition installation.)

P **Perfect Little Planet (grades 2–4)** **PL**
 Imagine the ultimate space vacation! Discover our solar system through a new set of eyes – those of a family from another star system seeking the perfect vacation location. Students in the planetarium will visit the planets of our solar system and fly over the surface of Pluto, sail through the rings of Saturn, walk on the surface of Mars. Which planet will your students choose as their favorite vacation spot?

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Physical and Chemical Changes (grade 5) **SG**

Students discuss the differences between physical and chemical changes and participate in interactive experiences to test and see if these changes are reversible or irreversible. The presentation concludes with a look at the three combustion elements used in launching a rocket! This 90-minute program includes a 30-minute demonstration and 60 minutes of self-guided time in the Science Gallery.

R Rocks, Minerals and Fossils (grade 4) **M**

Using hands-on samples, students learn about the formation of sedimentary, igneous, and metamorphic rocks. Students see a beautiful variety of minerals and learn how their properties determine their uses in our everyday lives. Using the scratch and streak tests on samples, students identify minerals and their properties.

S Science Gallery Self-Guided Visit (grades K-12) **SG**

Spend 60 minutes exploring over 100 interactive exhibits that cover all aspects of science. Pull your own weight on our pulley chairs. Explore physics as you design, test, and race your own model race cars. Marvel at the mirrors in the Matrix, and explore ecology with our award-winning Lake Winnipeg: Shared Solutions simulator, finding out how YOU can help save Lake Winnipeg.

The Search for Life: Are We Alone? (grades 7-12) **Trailer PL**

An awe-inspiring trip through space and time, from the depths of Earth's oceans to the outer reaches of the cosmos. Explore the links between life on Earth and the potential for life on other planets. Includes a night sky update.

Season of Light (grades 4-12) (December only) **Trailer PL**

This presentation traces the history and development of many of the world's most endearing holiday customs, all of which involve lighting up the winter season. The show recounts the historical religious and cultural rituals practiced during the time of winter solstice, and ends with possible astronomical explanations of the famous Star of Bethlehem.

Sensational Science (grade 1) **SG**

Students explore their five senses through a variety of engaging games and activities geared to the Grade 1 "Senses" cluster of the Manitoba Science Curriculum. Observe experiments with one or more senses, and discover how senses can work together to help us explore and interpret the world around us. This 90-minute program includes a 30-minute demonstration and 60 minutes of self-guided time in the Science Gallery.

Similarities and Differences (grades K-1) **M**

Learn about the basic needs of all people by exploring different homes and family communities in the Museum Galleries. Students

touch and try on various clothing items such as a kimono, kilt, sari, and poncho to understand similarities and differences among people all over the world.

Solar System Workshop (grade 6) **PL W**

This 1-hour-and-45-minute program includes a planetarium show and a hands-on workshop. Each planet is explored up close, with a focus on how humans have explored many worlds using probes and satellites – many of them with technology developed in Canada. In the workshop, students map out a portion of an imaginary planet using hands-on "remote sensing" techniques. Like a jigsaw puzzle, each map portion comes together on a board to form a large region of the imaginary planet. Designed specifically to support the Grade 6 "Exploring the Solar System" cluster of the Manitoba Science Curriculum.

Son Of A Gunn: An HBC Mystery (grade 11) **M**

In 1806, John Fubbister enlisted with the Hudson's Bay Company as a labourer. A year and a half later, he revealed his true identity, causing uproar within the company. Using historical documents, such as journal entries, census records, and artifacts, students act as historians to unravel the mysterious identity of a seemingly ordinary Scottish labourer and consider the consequences of his deceit.

Sound Science (grade 4) **SG**

This program supports the Grade 4 "Sound" cluster by demonstrating that sound is a vibration conducted through the atmosphere. Review the concept of pitch and how musical instruments transform energy into sound. End off with a demonstration of the power of a sound cannon! This 90-minute program includes a 30-minute demonstration and 60 minutes of self-guided time in the Science Gallery.

State Your Properties (grade 2) **SG**

Explore the properties of solids, liquids, and gases. Students observe changing states of matter and see the reactions when mixing different states together! Content supports the Grade 2 "Properties of Solids, Liquids, and Gasses" cluster of the Manitoba Science Curriculum. This 90-minute program includes a 30-minute demonstration and 60 minutes of self-guided time in the Science Gallery.

W What's Up? (grades K-2) **PL**

This fun-filled live presentation introduces young astronomers to some of the celestial wonders that can be seen up in the night sky including constellations, stars, and planets. Daily and seasonal changes of our planet Earth are demonstrated throughout the program. Students are then taken on a journey to see close-up views of some of the planets, with a few surprises along the way.

M = Museum Galleries **PL** = Planetarium
SG = Science Gallery **W** = Workshop

IT'S EASY TO BOOK A PROGRAM **204-988-0626**

ManitobaMuseum.ca/education/

FAQs

How do I book a program for my class?

Teachers can request a booking by phone or with our online form at ManitobaMuseum.ca/education/booking-request-form/. For quick date confirmation or suggestions, please include the following information:

- School Name
 - Teacher's Name(s)
 - Number of Students/Classes/Grades
 - Programs Desired
 - 3 Preferred Museum Field Trip Dates
- Let us know if you require a lunch space.
 - Will there be any students with special needs in your group?
 - Provide any other details we should know about to ensure a terrific experience for everyone.

How far in advance do I need to book?

If you have a specific date, it's best to book as early as possible. We start accepting school bookings in mid-August. In general, we request a minimum of two weeks' notice for guided programs and one week for self guiding visits.

Do I have to make a booking if my group is self guiding in the Science Gallery or Museum Galleries?

Yes! In order to receive the school discount rate, your group must be booked one week prior to your visit or regular public rates will apply. We cannot make any exceptions.

How much notice do I have to give to cancel or reschedule?

We request five business days notice for cancellation and rescheduling. Less than five days notice will result in an administrative fee. If any problems arise, please call the programs office at 204-988-0626.

What is the cost for the teachers and volunteer supervisors?

We allow one free adult supervisor for every six students. Any adult supervisors beyond this ratio would pay the same rate as the students. Exceptions are made for funded students who require support workers. Please mention this when you are requesting a booking.

I have not received a confirmation letter. What do I do?

Confirmation letters are either emailed directly to you or faxed to the school, depending on your request at the time of your booking. If you have not received your confirmation letter or have misplaced it, please call the programs office at 204-988-0626 and it will be resent. If you have requested an email version, please check your inbox and "junk" folder. If it's not in either place, please call the programs office at 204-988-0626 and it will be resent.

