



# SCHOOL PROGRAMS

2009 • 2010

VOIR LE VERSO POUR INFORMATION EN FRANÇAIS

MARK YOUR  
CALENDARS!

## Robots + Us

is coming to town!

October 8<sup>th</sup>, 2009 –  
January 17<sup>th</sup>, 2010

TEACHER APPRECIATION  
WEEKEND

October 24–25, 2009



# ROBOTS + US

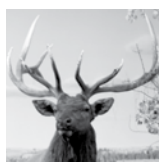
excitement • adventure • discovery

For full descriptions of all School Programs, and to access other teacher resources, visit us online at [www.manitobamuseum.ca](http://www.manitobamuseum.ca)

THE  
**Great-West Life**  
ASSURANCE COMPANY

STRONGER COMMUNITIES TOGETHER™

School Programs are sponsored by Great-West Life.



# THE MANITOBA MUSEUM COMES TO YOU!

In school programming now available! **See page 7** for details.

# WHAT'S NEW?



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## TEMPORARY EXHIBITS



### ROBOTS + US is coming to town!

October 8, 2009 – January 17, 2009. See page 6 for details.

### THE BEATLES! Backstage & Behind the Scenes.

February 12, 2010 – April 11, 2010. See page 6 for details.

## IN THE MUSEUM

### New! DINOSAUR PROGRAM for K – 2

See the new and improved Earth History Gallery in this program. (Available December 2009)

#### Discovery Room themes:

- **Winnipeg General Strike** – open until November 1, 2009
- **Piecing Together the Past: Ancient Pottery from Manitoba** – November to April
- **Biodiversity Through Time** – April to September 2009



## IN THE SCIENCE GALLERY



- **New!** Train like an astronaut in our microgravity trainer
- Explore life in the Ecosystem self-sustaining aquarium
- Our new Explore Science Zone and its new technologies has prompted great improvements to our full slate of demonstrations. Come see the difference!

## IN THE PLANETARIUM



### Celebrate the International Year of Astronomy with a visit to the planetarium!

- **The Solar System** – new show and hands-on workshop for Grade 6
- **To the Moon** – space explorers past, present and future
- **Fact or Fiction?** – new show opening January 2010
- Descriptions of all new shows on pages 12 & 13.



# CONNECTING WITH THE CURRICULUM



The Manitoba Museum is committed to being your best educational resource. We work closely with Manitoba Education and study the curriculum guide to find areas we can support with our Museum and Science galleries, Planetarium, curatorial expertise and technical abilities.

Live Science Gallery demonstrations, such as “Forces and Simple Machines” for Grade 5s and guided Museum programs, such as the “Growth and Changes in Animals” for Grade 2s provide a complete Cluster Overview. They can be used either as an introduction to, or a review of, that particular unit of study. Each program is tested with several groups of students prior to its implementation. Our curatorial staff and scientists help us develop programs with the greatest accuracy and up-to-date knowledge.

To determine which programs will best meet your needs, check our curriculum chart at [www.manitobamuseum.ca](http://www.manitobamuseum.ca). There you will find everything we offer for your grade(s), and which objective each program serves.

## TEACHER APPRECIATION WEEKEND



You and your family are invited to come see The Manitoba Museum, Planetarium, Science Gallery, and Robots + Us exhibit **FREE!**

Sign in at our Teachers Table in the foyer and you will receive free admission to all areas, **11AM to 5PM Saturday, October 24** and **Sunday, October 25, 2009**.

Meet the Animators who deliver school programs and preview any area you choose. Pick up materials from our Teachers Table of resources for your classroom.

# NEW PROGRAMS

## SCIENCE GALLERY!

**N**ew! Cosmos Corner, the space area of the Science Gallery, has been renovated with new exhibits courtesy of the Canadian Space Agency! We've installed a new Microgravity Trainer, which allows students to simulate a spacewalk, performing tasks in a frictionless environment. It's a fun and challenging exhibit with links to both space exploration and the science of forces and motion.

Also new is a Canadarm2 simulator, so your students can learn to "fly" this Canadian space icon. Mission Control follows live space missions as they occur, including Canadian Bob Thirsk's 6-month stay this year aboard the International Space Station.

At the other end of the gallery, our Ecosystem self-sustaining aquarium/terrarium offers a glimpse into the circle of life. This 3.2m-long tank contains plants, insects, fish, amphibians, and crustaceans, including several lobster and "Klaus" the crab, the current king of the Ecosystem. We add only light (since we're in a basement) and compostable materials to the built-in composter – the environment sustains itself.

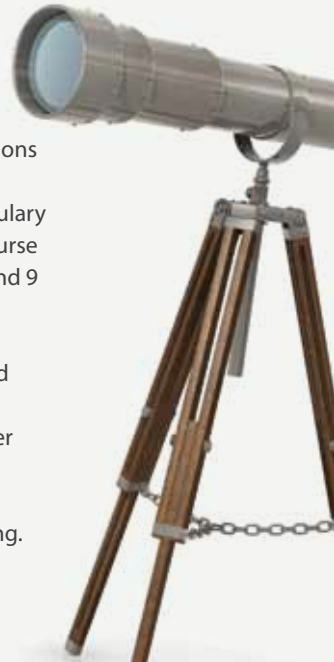


## EYES TO THE SKIES ADULT ASTRONOMY COURSE

Learn how to locate and identify stars, constellations and deep-sky objects; explain moon phases and seasons; understand the terminology and vocabulary of the night sky and much more. An excellent course for teachers, especially those teaching Grade 6 and 9 Science or anyone with an interest in astronomy.

This six-week evening course begins near the end of September and runs from 7PM to 9:30PM in the Planetarium Star Theatre. Resources and other handouts are provided.

Other courses will be held in the winter and spring. Call course leader **Mike Jensen** at **988-0613** for details.



## PLANETARIUM

The Planetarium is celebrating the International Year of Astronomy with some new shows. **"To the Moon"** highlights the history of space exploration, from the first rockets to the first landing on the moon, and looks ahead to the next decades of space travel. It's designed around the grade 6 "Exploring the Solar System" and the grade 9 "Exploring the Universe" curriculum clusters.

Our live sky shows, **"The Sky Tonight"** and **"Exploring the Sky"**, have been revised with new content and visuals, incorporating the latest discoveries in astronomy and space science.

Opening in January 2010, **"Fact or Fiction?"** is a new show narrated by Phil Plait, the author of the popular blog and webpage Bad Astronomy. Phil takes a critical look at popular myths and misconceptions to show audiences how science can be used to evaluate questionable claims. Were the Apollo visits to the Moon actually a hoax? Have aliens landed on Earth? Can you tell your future by the stars? Your students will learn how to find the answers themselves!

### THE SOLAR SYSTEM WORKSHOP – REVISED FOR 2009!

Join us aboard Interstellar Flight 1047 as we go on a whirlwind tour of our Solar System and map out an alien planet using Canadian-inspired remote sensing techniques! Specifically geared for the Grade 6 Astronomy curriculum, this interactive show and workshop has been a hit with classes since 2001 and has been updated to include new discoveries. Book it in combination with our To The Moon planetarium program for full coverage of the space cluster!

# EXHIBITS AND PROGRAMS

## EARTH HISTORY GALLERY

The Cretaceous Life exhibit is an interactive display that gives visitors an idea of what western Canada was like millions of years ago, when dinosaurs ruled.

This gallery upgrade displays some of the very best specimens from the Museum's large Cretaceous collections. There's a touchable dinosaur bone, a microscopic viewer that shows what a dinosaur bone looks like inside, replicas of dinosaur skin and dinosaur teeth, and the jaws and vertebrae of various sea animals. Also included is the footprint of a theropod, similar to a *Tyrannosaurus rex*, which allows students to compare their footprint to the dinosaur's.



## MANITOBANS AND WORLD WAR II (6, 11)

Get your hands on some history! This program consists of hands-on evidence stations highlighting Manitoba's connections to the Second World War. Stations include artifacts, documents, photos, art, and even a reproduction flying jacket and aviator goggles students can try on.



## DINOSAUR WORLD (K-2)

Tour the new exhibits in our Earth History Gallery, including pterosaurs flying over head. The program is now more hands-on than ever. (Available December 2009)



## AUDIO TOURS

High school groups who are Self-Guiding can try our new Audio Tours. Twenty eight Museum Gallery Highlights are offered through the Museum Galleries. Available in English, French and German. \$1 additional charge per student. 40 wands available, please reserve them when booking your program to ensure availability.

# TEMPORARY EXHIBITS!

## ROBOTS + US

OCTOBER 8, 2009 TO  
JANUARY 17, 2010

Self Guide in this exciting exhibit for an hour \$3.00 per student, or \$2.50 with any other venue.

*Robots and Us* is a 6,000 square foot interactive exhibit that shows how biology and technology are moving closer together. *Robots and Us* provides all sorts of hands-on opportunities to explore how building artificial life can teach us about the real thing:

- Visit **Low Life Labs** and find out what robot designers are learning from ants, cockroaches, and other simple forms of life.
- Step up to the exhibit's **Robot Arena** and watch the impact that beams of light and other obstacles have on the paths they take from point to point
- Visit the **Garden of Sensory Delights** and use your body to control the motion of its wacky robotic flowers
- **Build your own jitterbug robot** using some simple materials and your own creativity. You'll see that the slightest variations in leg shape or body weight will make your jitterbug dance differently from all the rest. (You can take home your creation for an additional \$5 fee, or recycle it for future visitors to use.)



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## THE BEATLES! BACKSTAGE AND BEHIND THE SCENES

FEBRUARY 12 TO APRIL 11 2010

Self Guide in this exhibit of never before seen photos for an hour. \$1.50 as stand-alone and \$1.00 when combined with a second program.

**Attention Music Teachers!** Do you have a small music group (choral or instrumental) looking for a performance opportunity? Come and add music to our Beatles Exhibit. Call Lila Knox at 988-0689 to arrange your opportunity.

# WE COME TO YOU!



Are you planning school-wide educational programming or a special theme day? We can help! Museum staff will lead hands-on workshops at your school. Sessions may vary from 20 minutes to an hour per class and will be adapted to grade level. Workshops may include hands-on artifact study, model tipi building, traditional pottery, or soap stone polishing (extra charge for materials may apply). Possible themes include:

- **Aboriginal Peoples of the Plains**
- **Fur Trade/Voyageurs**

- **Traditional Inuit Life**
- **Who are the Metis?**
- **Digging Manitoba's Past (Archaeology)**

Topics, activities, and length of workshop can be customized to your needs.

Full day with two Museum Animators \$500 plus GST, Half day \$300 plus GST. Call **988-0626** for more information.

# WE'LL BRING THE DONUTS!



We'd like to visit during your next staff meeting, and show you what we're doing this year. Learn about the Museum's programs, temporary exhibits, benefits for teachers, in a 15 minute presentation. Every school we visit will receive a class pass for a teacher who hasn't visited in the past 5 years, or a new teacher who has never come before. Available in both official languages, all year! Call Lila Knox at **988-0689** to secure your date.

# K-2 PROGRAMS

<b>KINDERGARTEN</b>		
<b>MUSEUM PROGRAMS</b>	<b>PRICE</b>	<b>LENGTH</b>
Similarities and Differences	\$3.50	60 minutes
Dinosaur World (December 2009)	\$3.50	60 minutes
Nonsuch Gallery Tour	\$3.50	60 minutes
Museum Galleries Self-Guided Tour	\$3.00	unlimited
<b>SCIENCE GALLERY DEMONSTRATIONS</b>		
Colours of Science	\$3.50	90 minutes*
Science Gallery Self-Guided Tour	\$3.00	60 minutes
<b>PLANETARIUM SHOWS</b>		
The Super Sky Show	\$3.50	40 minutes
Solar System Safari	\$3.50	40 minutes
The Alien Who Stole Christmas (December only)	\$3.50	40 minutes



<b>GRADE 1</b>		
<b>MUSEUM PROGRAMS</b>	<b>PRICE</b>	<b>LENGTH</b>
Dinosaur World (December 2009)	\$3.50	60 minutes
Similarities and Differences	\$3.50	60 minutes
Nonsuch Gallery Tour	\$3.50	60 minutes
Museum Galleries Self-Guided Tour	\$3.00	unlimited
<b>SCIENCE GALLERY DEMONSTRATIONS</b>		
Sensational Science	\$3.50	90 minutes*
Science Gallery Self-Guided Tour	\$3.00	60 minutes
<b>PLANETARIUM SHOWS</b>		
The Super Sky Show	\$3.50	40 minutes
Solar System Safari	\$3.50	40 minutes
The Alien Who Stole Christmas (December only)	\$3.50	40 minutes

<b>GRADE 2</b>		
<b>MUSEUM PROGRAMS</b>	<b>PRICE</b>	<b>LENGTH</b>
Our Community	\$3.50	60 minutes
Growth and Changes in Animals	\$3.50	60 minutes
Dinosaur World (December 2009)	\$3.50	60 minutes
Nonsuch Gallery Tour	\$3.50	60 minutes
Museum Galleries Self-Guided Tour	\$3.00	unlimited
<b>SCIENCE GALLERY DEMONSTRATIONS</b>		
State your Properties	\$3.50	90 minutes*
Science Gallery Self-Guided Tour	\$3.00	60 minutes
<b>PLANETARIUM SHOWS</b>		
The Super Sky Show	\$3.50	40 minutes
The Secret of the Cardboard Rocket	\$3.50	45 minutes
Solar System Safari	\$3.50	40 minutes
The Halloween Show (October only)	\$3.50	45 minutes
The Alien Who Stole Christmas (December only)	\$3.50	40 minutes
<b>TEMPORARY EXHIBIT (SELF GUIDING)</b>		
Robots + Us (October to January, see page 6)	\$3.00	60 minutes

- \* 90 minute demonstrations include 30 minute science demo and 60 minutes in Science Gallery.
- Guided Museum Programs include the opportunity to self-guide in galleries.
- Science Workshops take place in Star Theatre and classrooms.
- Planetarium shows include a Q & A at the end of each show.
- All program descriptions on pages 12 & 13, Registration info on page 16.

# 3-5 PROGRAMS

<b>GRADE 3</b>		
<b>MUSEUM PROGRAMS</b>	<b>PRICE</b>	<b>LENGTH</b>
Inuit: People of the North	\$3.50	60 minutes
Lapidary Workshop	\$3.50	90 minutes
Our Community	\$3.50	60 minutes
Growth and Changes in Plants	\$3.50	60 minutes
Nonsuch Gallery Tour	\$3.50	60 minutes
Museum Galleries Self-Guided Tour	\$3.00	unlimited
<b>SCIENCE GALLERY DEMONSTRATIONS</b>		
Forces that Attract and Repel	\$3.50	90 minutes*
Science Gallery Self-Guided Tour	\$3.00	60 minutes
<b>PLANETARIUM SHOWS</b>		
The Secret of the Cardboard Rocket	\$3.50	45 minutes
Exploring the Sky	\$3.50	50 minutes
The Halloween Show (October only)	\$3.50	45 minutes
The Alien Who Stole Christmas (December only)	\$3.50	40 minutes
<b>TEMPORARY EXHIBIT (SELF GUIDING)</b>		
Robots + Us (October to January, see page 6)	\$3.00	60 minutes

<b>GRADE 4</b>		
<b>MUSEUM PROGRAMS</b>	<b>PRICE</b>	<b>LENGTH</b>
History of Manitoba	\$3.50	60 minutes
Habitats and Communities	\$3.50	60 minutes
Rocks, Minerals and Fossils	\$3.50	60 minutes
Inuit: People of the North	\$3.50	60 minutes
Aboriginal Peoples of the Plains	\$3.50	60 minutes
Lapidary Workshop	\$3.50	90 minutes
Nonsuch Gallery Tour	\$3.50	60 minutes
Museum Galleries Highlight Tour	\$3.50	60 minutes
Museum Galleries Self-Guided Tour	\$3.00	unlimited
<b>SCIENCE GALLERY DEMONSTRATIONS</b>		
Sound Science	\$3.50	90 minutes*
Science Gallery Self-Guided Tour	\$3.00	60 minutes
<b>SCIENCE WORKSHOPS</b>		
The Amazing Light Workshop	\$4.50	1h 45 minutes
<b>PLANETARIUM SHOWS</b>		
Exploring the Sky	\$3.50	50 minutes
The Secret of the Cardboard Rocket	\$3.50	45 minutes
The Halloween Show (October only)	\$3.50	45 minutes
The Alien Who Stole Christmas (December only)	\$3.50	40 minutes
<b>TEMPORARY EXHIBIT (SELF GUIDING)</b>		
Robots + Us (October to January, see page 6)	\$3.00	60 minutes

<b>GRADE 5</b>		
<b>MUSEUM PROGRAMS</b>	<b>PRICE</b>	<b>LENGTH</b>
Exploring the Fur Trade	\$3.50	60 minutes
Aboriginal Peoples of the Plains	\$3.50	60 minutes
Inuit: People of the North	\$3.50	60 minutes
Lapidary Workshop	\$4.50	90 minutes
CSI: Theft at John Williams High	\$4.50	90 minutes
Nonsuch Gallery Tour	\$3.50	60 minutes
Museum Galleries Highlight Tour	\$3.50	60 minutes
Museum Galleries Self-Guided Tour	\$3.00	unlimited
<b>SCIENCE GALLERY DEMONSTRATIONS</b>		
Forces and Simple Machines	\$3.50	90 minutes*
Physical and Chemical Changes	\$3.50	90 minutes*
Science Gallery Self-Guided Visit	\$3.00	60 minutes
<b>PLANETARIUM SHOWS</b>		
Exploring the Sky	\$3.50	50 minutes
The Sky Show	\$3.50	50 minutes
Is Anybody Out There?	\$3.50	40 minutes
'Tis the Season (December only)	\$3.50	45 minutes
NEW! Fact or Fiction? (January 2010)	\$3.50	40 minutes
<b>TEMPORARY EXHIBIT (SELF GUIDING)</b>		
Robots + Us (October to January, see page 6)	\$3.00	60 minutes



# 6-7 PROGRAMS

<b>GRADE 6</b>		
<b>MUSEUM PROGRAMS</b>	<b>PRICE</b>	<b>LENGTH</b>
Canada: An Emerging Nation	\$3.50	60 minutes
Diversity of Living Things	\$3.50	60 minutes
Manitobans and World War II	\$3.50	60 minutes
CSI: Theft at John Williams High	\$4.50	90 minutes
Lapidary Workshop	\$4.50	90 minutes
Nonsuch Gallery Tour	\$3.50	60 minutes
Museum Galleries Highlight Tour	\$3.50	60 minutes
Museum Galleries Self-Guided Tour	\$3.00	unlimited
<b>SCIENCE GALLERY DEMONSTRATIONS</b>		
Electrifying Science	\$3.50	90 minutes*
Rockets	\$3.50	90 minutes*
Science Gallery Self-Guided Visit	\$3.00	60 minutes
<b>SCIENCE WORKSHOPS</b>		
Solar System Workshop	\$4.50	1h 45 minutes
<b>PLANETARIUM SHOWS</b>		
Exploring the Sky	\$3.50	50 minutes
New! To the Moon	\$3.50	45 minutes
Is Anybody Out There?	\$3.50	40 minutes
'Tis the Season (December only)	\$3.50	45 minutes
NEW! Fact or Fiction? (January 2010)	\$3.50	40 minutes
<b>TEMPORARY EXHIBIT (SELF GUIDING)</b>		
Robots + Us (October to January, see page 6)	\$3.00	60 minutes
The Beatles! Backstage and Behind the Scenes (February to April, see page 6)	\$1.50	60 minutes



<b>GRADE 7</b>		
<b>MUSEUM PROGRAMS</b>	<b>PRICE</b>	<b>LENGTH</b>
Earth's Crust	\$3.50	60 minutes
Lapidary Workshop	\$4.50	90 minutes
CSI: Theft at John Williams High	\$4.50	90 minutes
Nonsuch Gallery Tour	\$3.50	60 minutes
Museum Galleries Highlight Tour	\$3.50	60 minutes
Museum Galleries Self-Guided Tour	\$3.00	unlimited
<b>SCIENCE GALLERY DEMONSTRATIONS</b>		
Rockets	\$3.50	90 minutes*
Science Gallery Self-Guided Visit	\$3.00	60 minutes
<b>SCIENCE WORKSHOPS</b>		
CSI: The Curse of the Pharaoh	\$4.50	1 h 45 minutes
<b>PLANETARIUM SHOWS</b>		
The Sky Show – REVISED	\$3.50	50 minutes
New! To the Moon	\$3.50	45 minutes
Is Anybody Out There?	\$3.50	40 minutes
'Tis the Season (December only)	\$3.50	45 minutes
NEW! Fact or Fiction? (January 2010)	\$3.50	40 minutes
<b>TEMPORARY EXHIBIT (SELF GUIDING)</b>		
Robots + Us (October to January, see page 6)	\$3.00	60 minutes
The Beatles! Backstage and Behind the Scenes (February to April, see page 6)	\$1.50	60 minutes



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# 8-12 PROGRAMS

<b>GRADE 8</b>		
<b>MUSEUM PROGRAMS</b>	<b>PRICE</b>	<b>LENGTH</b>
Ancient Civilizations	\$4.50	90 minutes
CSI: Theft at John Williams High	\$3.50	90 minutes
Lapidary Workshop	\$4.50	90 minutes
Nonsuch Gallery Tour	\$3.50	60 minutes
Museum Galleries Highlight Tour	\$3.50	60 minutes
Museum Galleries Self-Guided Tour	\$3.00	unlimited
<b>SCIENCE GALLERY DEMONSTRATIONS</b>		
Rockets	\$3.50	90 minutes*
Science Gallery Self-Guided Visit	\$3.00	60 minutes
<b>SCIENCE WORKSHOPS</b>		
CSI: The Curse of the Pharaoh	\$4.50	1 h 45 minutes
<b>PLANETARIUM SHOWS</b>		
The Sky Show – REVISED	\$3.50	50 minutes
New! To the Moon	\$3.50	45 minutes
Journey into the Living Cell	\$3.50	45 minutes
Is Anybody Out There?	\$3.50	40 minutes
'Tis the Season (December only)	\$3.50	45 minutes
NEW! Fact or Fiction? (January 2010)	\$3.50	40 minutes
<b>TEMPORARY EXHIBIT (SELF GUIDING)</b>		
Robots + Us (October to January, see page 6)	\$3.00	60 minutes
The Beatles! Backstage and Behind the Scenes (February to April, see page 6)	\$1.50	60 minutes

<b>GRADES 9-12</b>		
<b>MUSEUM PROGRAMS</b>	<b>PRICE</b>	<b>LENGTH</b>
Company of Adventurers (HBC)	\$3.50	60 minutes
Manitobans and World War II	\$3.50	60 minutes
Ancient Civilizations	\$4.50	90 minutes
Lapidary Workshop	\$4.50	90 minutes
Museum Galleries Highlight Tour	\$3.50	60 minutes
Nonsuch Gallery Tour	\$3.50	60 minutes
Museum Galleries Self-Guided Tour	\$3.50	unlimited
<b>SCIENCE GALLERY DEMONSTRATIONS</b>		
Rockets	\$3.50	90 minutes*
Science Gallery Self-Guided Visit	\$3.50	90 minutes
<b>SCIENCE PRESENTATIONS</b>		
Science Goes to the Movies – Impact: Earth!	\$3.50	60 minutes
Science Goes to the Movies – Climate Change	\$3.50	60 minutes
CSI: The Curse of the Pharaoh	\$4.50	1 h 45 minutes
<b>PLANETARIUM SHOWS</b>		
Is Anybody Out There?	\$3.50	40 minutes
Journey into the Living Cell	\$3.50	45 minutes
The Sky Show – REVISED	\$3.50	50 minutes
New! To the Moon	\$3.50	45 minutes
NEW! Fact or Fiction? (January 2010)	\$3.50	40 minutes
<b>TEMPORARY EXHIBIT (SELF GUIDING)</b>		
Robots + Us (October to January, see page 6)	\$3.00	60 minutes
The Beatles! Backstage and Behind the Scenes (February to April, see page 6)	\$1.50	60 minutes



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# PROGRAMS A-Z

**A** **Aboriginal Peoples of the Plains (Grade 5)**  
Bison diorama introduction followed by Grasslands Gallery tour, artifacts inside the tipi, and model tipi construction. New tipi and agricultural exhibits incorporated.

**The Alien Who Stole Christmas (K-4) – December only**  
Special holiday show combines a winter sky tour with a fun story about Santa and a flying saucer.

**The Amazing Light Workshop (4)**  
Students experiment with lenses and mirrors, discover what light can tell us about the Universe, and make a working kaleidoscope they can take home. Requires 1 hour, 45 minutes to complete.

**Ancient Civilizations (8-12)**  
Using ten basic characteristics of civilizations as a guide, students learn about ancient civilizations of North America in a slide presentation, Gallery Find activity, and a pottery workshop.

**C** **Canada: An Emerging Nation (6)**  
Students explore the social, political, and economic changes that occurred from 1914 to 1939, with a local focus.

**Colours of Science (K)**  
Discover primary colours and shades, and see how colours can be created and changed. This program has been completely revamped based on audience feedback. A great introduction to science for kindergarten students, this program involves the students and encourages the questions and wonder that drives the scientific process.

**Company of Adventurers (9-12)**  
Tour the Hudson's Bay Company Gallery to gain an appreciation of how the large themes of fur trade history were experienced by the people involved in the trade. An artifact study demonstrates how ideas, technologies and goods were exchanged between Aboriginal people and European traders.

**CSI: The Curse of the Pharaoh (6-12)**  
A murderer is on the loose. Students use real forensic techniques and gather evidence to bring the killer to justice. One hour, 45 minutes.

**CSI: Theft at John Williams High (5-8)**  
Students use their sleuthing skills at six stations in this hands-on approach to the methods of basic forensic science. (Minimum 15 students.)

**D** **Dinosaur World (K-2)**  
Tour the new exhibits in our Earth History Gallery, including pterosaurs flying over head. The program is now more hands-on than ever. (Available December 2009)

Revised!

**Diversity of Living Things (6)**  
Diversity and classification of life are addressed through an activity tour of the biomes of Manitoba.

**E** **Earth's Crust (7)**  
Through a hands-on specimen study and a tour of the Earth History Gallery, students learn the importance of rocks and minerals to the Earth's history, as well as their uses in everyday life. Mining is also examined.

**Electrifying Science (6)**  
Discover the properties and powers of electricity.



**Exploring the Fur Trade (5)**  
How were beaver hats made? How many furs were traded for a pound of beads? Find the answers to these questions and more in this tour of the Hudson's Bay Company Gallery.

**Exploring the Sky (3-6)**  
Live guided tour of the night sky, covering constellations, planets, and current sky events, with a Q&A period.

**F** **Fact or Fiction? (6-12)**  
The "Bad Astronomer", Phil Plait, explores popular myths and shows students how to tell science from pseudoscience. Based on the popular blog and website of the same name (available January 2010).

NEW!

**Forces and Simple Machines (5)**  
Flying wine glasses, gyroscopes, and other simple machines help demonstrate forces and balance.

**Forces that Attract and Repel (3)**  
Demonstrating forces that you can't see can be a challenge in the classroom, but you can make it easy with our new, interactive Grade 3 program. Covers gravity, magnetism and electrostatic forces and their practical applications with results that are often "shocking".

**G** **Growth and Changes in Animals (2)**  
Program highlights unique features of local mammals, birds, fish, reptiles, and amphibians in the Parklands region. Includes snake pits, bat cave, and giant sturgeon.

**Growth and Changes in Plants (3)**  
This program focuses on the unique features of local plants and how they were used by Aboriginal populations.

**H** **Habitats and Communities (4)**  
Learn about food chains and webs, and adaptations of different plant and animal populations while hiking through the Boreal Forest Gallery.

**The Halloween Show (2-4) – October only**  
Join Corky the talking bat as he guides you through some of the tales and traditions of Halloween.

**History of Manitoba (4)**  
Exploring three different environments in Manitoba, this program compares the pre-contact past, the early 20th century, and life today.

**I** **Inuit: People of the North (3-5)**  
Artifact study and a gallery tour demonstrate how the limited resources of skin, stone, bone and snow were important to the Inuit.

**Is Anyone Out There? (5-12)**  
Search for alien life on other planets and extreme life here on Earth. Features Canadian scientists and current research on extraterrestrial life.

**J** **Journey into the Living Cell (8–12)**  
Take a planetarium-powered journey inside a living cell. Explores the cell's basic functions and components.

**L** **Lapidary Workshop (3–12)**  
Students learn about the skill of Inuit artisans by shaping and polishing a soapstone pendant to take home.

**M** **Manitobans and World War II (6, 11)**  
Get your hands on some history. This program consists of hands-on evidence stations highlighting Manitoba's connections to the Second World War. Stations include artifacts, documents, photos, art, and even a reproduction flying jacket and aviator goggles students can try on.

**Museum Galleries Highlight Tour (4–12)**  
Discover the human and natural history of Manitoba with an interpreter-led highlight tour of the Museum galleries.

**Museum Galleries Self-Guided Tour (K–12)**  
Plan your own tour. An adult supervisor is required for each group of eight students. Pre-registration required. The Nonsuch is not always available. 40 Audio tour wands available to high school students in English, French and German, \$1 surcharge. Teachers wishing to visit the galleries in advance are invited to call 988-0626 to arrange a complimentary visit.

**N** **Nonsuch Gallery Tour (K–12)**  
Travel back in time to Deptford, England, and experience the life of a 17th century sailor bound for the New World on the Nonsuch. Available to mid-May.

**O** **Our Community (2)**  
Explore the characteristics of our community and travel through time to see how it has changed and stayed the same.

**P** **Physical and Chemical Changes (5)**  
Witness physical changes and chemical reactions with an explosive conclusion.

**R** **Rockets (6–12)**  
Explore the science behind rockets: action-reaction, the forces of flight, and combustion. Rocket science with a bang!

**Rocks, Minerals and Fossils (4)**  
Tour the galleries and examine touchable specimens to discover how the characteristics of rocks and minerals determine their uses, and how rock types and fossils reveal the history of Manitoba.

**S** **Science Gallery Self-Guided Visit (K–12)**  
Spend 60 minutes exploring hands-on science. Make your own movie, design and test a race car, and solve a murder mystery. Interactive exhibits that cover all aspects of science.

**Science Goes to the Movies (7–12)**  
This program highlights critical thinking skills and explores the fact and fiction behind science-based Hollywood movies (available Spring 2010).

**The Secret of the Cardboard Rocket (2–4)**  
Blast off into space in a cardboard rocket on an amazing journey through the solar system.

**Sensational Science (1)**  
A complete rework of our popular Grade 1 science program, covering elements of all four curriculum clusters. A great overview and an age-appropriate introduction to the process of science. Students use their senses to participate in the process of science, and explore some of the science around them: seasonal changes, characteristics of living things and materials. Maximum 30.

**Similarities and Differences (K, 1)**  
Students will look at clothing, shelter, and family community around the world to examine the common basic needs of all people.

**Solar System Safari (K–3)**  
A light-hearted introduction to the sky; including planets, stars, constellations, and more. A jungle adventurer takes the audience on a safari to the major features of the solar system. Explains Pluto's new status as a dwarf planet.

**Sound Science (4)**  
Experience the power of the sound cannon, discover what happens to sound in a vacuum, and observe various sound-making devices in action.

**State your Properties (2)**  
Explore the properties of the three states of matter: solids, liquids and gasses.

**The Super Sky Show (K–2)**  
Meet Queen Cassiopeia, tour the constellation zoo, and explore the Earth and Sun in this planetarium talk show.

**The Sky Show (7–12)**  
A live tour of the night sky, complete with current constellations, planets, and upcoming celestial events. **Revised!**

**Improved! Solar System Workshop (6)**  
Join us aboard Interstellar Flight 1047 as we go on a whirlwind tour of our Solar System and map out an alien planet using Canadian-inspired remote sensing techniques! Specifically geared for the Grade 6 Astronomy curriculum. Requires 1 hour, 45 minutes to complete.

**T** **To the Moon! (6–12)**  
Relive the human and robotic exploration of our solar system, and see the next steps in the human conquest of space. This new planetarium show takes students on a voyage into the future of space exploration. Robotic probes to Mars and the moon will pave the way for astronauts to return to the Moon, and then journey on to Mars and beyond. A great highlight for Grade 6 – Exploring the Solar System and Grade 9 – Exploring the Universe. **NEW!**

**'Tis the Season (5–8) – December only**  
Explore holiday traditions from many lands, and discover the reason behind the seasons and the winter solstice.



# SLEEPOVERS

## AN ADVENTURE FOR THE AGES!

*It really is the COOLEST bedtime story of all time: "Remember when we slept over at the Museum?!" It can be a story your students will tell for years to come after attending a MuZZeum Sleepover!*

If you're planning a field trip to Winnipeg, or just want a unique way to end the school year, consider adding a Sleepover to your itinerary. With the Museum to yourselves, you and your students will feel like VIPs for the night.

MuZZeum Sleepovers offer a wide range of activities including:

- Roaming our province from North to South in the Museum Galleries
- Exploring the Nonsuch, the Museum's immensely popular 17th century ketch
- Animated storytelling in the Galleries
- Weird and wonderful hands-on science in the Science Gallery
- An interactive and out-of-this-world Planetarium Show
- A Mystery Flashlight Tour of the Museum Galleries in the dark, with optional Scavenger Hunt
- Pizza and juice in the evening, plus a nutritional morning snack

All Sleepovers require a minimum of 80 campers and 16 adults to run, however smaller groups can be combined to meet those numbers. The MuZZeum Sleepover program is ideally geared for Grades 4-6, however we can custom design sleepovers for younger and older grades!

### DATES AVAILABLE:

Sleepovers are normally offered on Fridays from January thru June. Other days of the week and times of the year are also possible. Contact us to inquire about dates that suit you! Book early to avoid disappointment!

### PRICES:

\$35 per participant. Discounts for adults (ages 18 and up) to a ratio of 1 for every 5 paid children. Adults over the ratio are charged the full price.

All prices include GST.

Prices subject to change without notice.

A non-refundable deposit is required to confirm the night for your group.

### HOW TO BOOK:

For more information or to book a program, call Mike at (204) 988-0613, email [mjensen@manitobamuseum.ca](mailto:mjensen@manitobamuseum.ca) or visit us online at [www.manitobamuseum.ca](http://www.manitobamuseum.ca)

MuZZeum Sleepovers are sponsored in part by **Investors Group**.



—teacher, Faraday School: "This special event will forever remain a fond memory for all the children who attended... Thanks so much for the experience!"

—student, Faraday School: "I want to thank you for touring us through the Museum. I laughed, I screamed, but most of all, I learned a lot of things I never knew."

—student, Faraday School: "Thank you for hosting one of my best field trips!"

PROGRAM

# REGISTRATION



## WIN A FREE CLASS PASS!

Complete your evaluation form to be entered into the draw. Last year's winners **K. Rafferty** from **Green Valley School** and **C. Dondo** from **Stonewall Centennial School**. Congratulations!

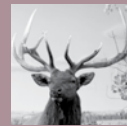
THE MANITOBA MUSEUM  LE MUSÉE DU MANITOBA

For full descriptions of all School Programs, and to access other teacher resources, visit us online at [www.manitobamuseum.ca](http://www.manitobamuseum.ca).

IT'S EASY TO BOOK A PROGRAM

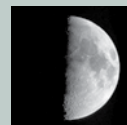
**(204) 988.0626**

[programs@manitobamuseum.ca](mailto:programs@manitobamuseum.ca)



### MUSEUM AND GENERAL REGISTRATION GUIDELINES

- Available mid September 2009 to end June 2010.
- Tuesday to Friday, and Mondays after Victoria Day in May.
- 10 student minimum for all guided programs.
- 50 cents off for any additional program in any area.
- Variety of start times available.



### PLANETARIUM PROGRAMS

- 10, 11:15 AM & 1:15 or 1:30 PM shows.
- Q and A session after each show.
- Shows are approximately 40 minutes in length.
- Please arrive 15 minutes early for seating.
- 50 cents off for any additional program in any area.



### SCIENCE WORKSHOPS

- Require 1 hour and 45 minutes to complete.
- Light and Solar System workshops include a show followed by a hands-on activity, and run with 20 – 80 students only.
- 50 cents off for any additional program in any area.



### SCIENCE GALLERY DEMONSTRATIONS

- Demonstrations are 30 minutes long and include an additional 60 minutes in the Science Gallery.
- 50 cents off for any additional program in any area.