

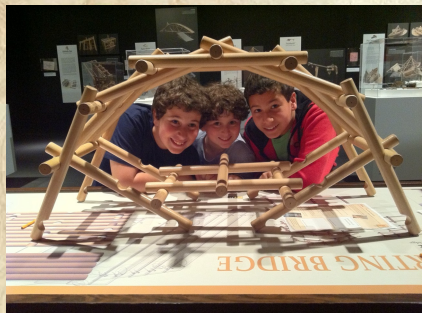
# REASONS TO BOOK A SCHOOL VISIT THIS WINTER

## SPECIAL EXHIBITIONS

### LEONARDO DA VINCI'S WORKSHOP: THE EXHIBITION

Until March 18, 2012 (last school visit: March 9, 2012)

\$10 / student - FREE for Teachers and supervisors



Your students will explore the science of art and machines, experience unique 3-D models presenting Leonardo's drawings and notebooks and learn about his life story. Dissect and probe Leonardo's work through large sophisticated touch screens. See Leonardo's concepts spring to life –

from his screw-shaped flying machine to a mechanical lion, an "automobile", musical instruments and much more. Were his drawings his way of clarifying concepts in his mind, or shorthand for jotting down his thoughts? How many of his ideas might have worked? Inquire, discuss and draw your conclusions. Use innovative technology to interact with his paintings and see how Leonardo's *Last Supper*, the *Mona Lisa* and his presumed self-portrait would have appeared without restoration.

This exhibition has strong links to the Ontario Science and Technology, History and Art Curricula. It is complemented by an Educator's Guide downloadable from our website: [www.OntarioScienceCentre.ca/school/events/assets/LeonardodaVinciEducatorGuide.pdf](http://www.OntarioScienceCentre.ca/school/events/assets/LeonardodaVinciEducatorGuide.pdf)

#### What the media are saying:

"The measure of an exhibit is to see how interested the children are. This morning, they've been very interested and very engaged!" Nalini Sharma, CP24  
"It's so cool... great for grownups and kids." Beverly Thomson, Canada AM  
"There is something thrilling about the way the exhibition cumulatively assembles the evidence of his robust energy and daring, his scrupulous analysis and care." Edward Rothstein, New York Times

#### What students are saying:

"I thought it was amazing, like all the technology he invented" Graham, Grade 3  
"(The Science Centre) ... is our school today" Eric, Grade 4  
"It taught me a lot about da Vinci and his inventions" Manaf, Grade 9

Presented by Barilla Canada Inc.

Media Partners: The Toronto Star, CP24 and CTV.

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### GPS ADVENTURES

Until January 8, 2012 (Last school group December 23, 2011)

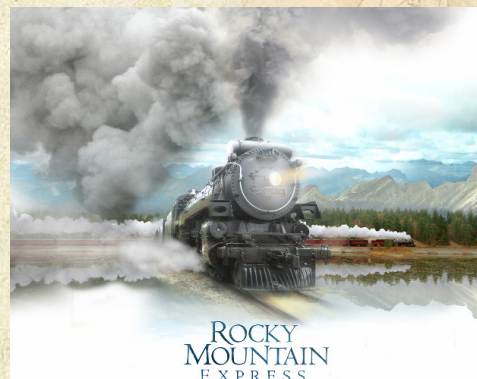
FREE with admission



Bring your students to see how Global Positioning System (GPS) technology is changing the way we live, work and play. GPS is everywhere – from automobiles to cell phones – and is the backbone of Geocaching. Jump into an exciting treasure hunt with *GPS Adventures*. Go through a maze finding your way out using GPS Adventure Cards!

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## NEW IMAX® FILM



### ROCKY MOUNTAIN EXPRESS

Monday to Friday at 11:00 a.m. and 2:00 p.m.

Journey on a steam train through the Canadian Rockies for the ride of a lifetime. Discover locomotive 2816 and retrace the original route the Canadian Pacific Railway carved out of the wilderness more than a century ago. Learn how the steel wheels of this powerful locomotive, carrying thousands of tons of load, barely touched the tracks, making it possible to transport merchandise with a level of efficiency unheard of with other technologies.

This film has strong links to the Ontario Science and Technology, History and Geography, Social Studies and Civics Curricula.

#### What students are saying:

"I think the movie was really well made and it showed me how hard these Canadians worked to build the incredible Pacific Canadian Railway" Kamil, Grade 5  
"I could not believe this is how it actually happened" Gibril, Grade 7

Directed by Stephen Low and produced by Pietro L. Serapiglia and Alexander Low. Presented as part of the LG Film Series

## FEATURED SCHOOL PROGRAMS

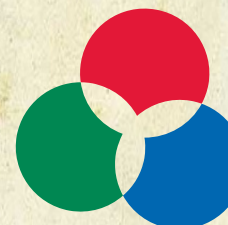
### Inventors' Challenge: Flight (5-8)

Apply your curiosity to combine science, engineering and art, just like Leonardo da Vinci. Study the flight of birds to design a strong and stable flying structure. Use the properties of air to lift a surprisingly large load! Sharpen your technological problem-solving skills as you test and improve your invention.

### Inventors' Challenge: Build a Machine (9-12)

What would da Vinci do if faced with today's global challenges? Solve a real world problem by designing, building and testing a unique structure to move a load. Use a variety of simple machines and materials to bring out the da Vinci in you.

ONTARIO  
SCIENCE  
CENTRE



## A self-guided class visit to the Science Centre is only \$6 per student and FREE for Teachers and supervisors! This includes:

- ten interactive and educational exhibit halls
- daily live science demonstrations on electricity, papermaking, the science behind the headlines and da Vinci-related experiences

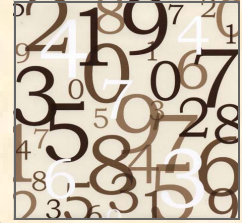
## NEW PROGRAM FOR GRADES 7 & 8

### WHAT ARE THE ODDS?

Book now! Starts February 1, 2012

45-minute hands-on workshop

What do hurling missiles at a castle and bungee jumping from a bridge have in common? Math, of course! Students use their skill and creativity to solve new and old real world problems. With proportional reasoning and number sense, students will predict the best position for a medieval catapult. Next, by comparing their probability model with their own experimental data, they will theorize on how to make a bungee jump exciting and risk-free.



Curriculum connections for this new program can be found on our website at:

[www.OntarioScienceCentre.ca/school/curriculum/junior.asp?grade\\_level\\_ID=3#p170](http://www.OntarioScienceCentre.ca/school/curriculum/junior.asp?grade_level_ID=3#p170)



## NEW RESOURCES ONLINE

New teacher resources including grade-specific exhibit activities and program-specific exhibit inquiries can be found free on our website. Download these resources to bring greater value to your students' exhibit hall visits and to extend the learning from attending a school program.

Download at: [www.OntarioScienceCentre.ca/school/resources/teacher.asp](http://www.OntarioScienceCentre.ca/school/resources/teacher.asp)

## IMAX FILMS

### UNDER THE SEA

Monday to Friday at 12:00 p.m.



Immerse yourself in some of the most exotic and isolated undersea locations on earth. Explore the beauty and natural wonder of the oceans as well as the impact of global climate change on these delicate ecosystems.

Warner Bros. Pictures and IMAX Corporation present "Under the Sea," an underwater documentary adventure narrated by Jim Carrey.

### TORNADO ALLEY

Monday to Friday at 1:00 p.m.



Join *Storm Chasers* star Sean Casey and the researchers of VORTEX 2, the most ambitious effort ever made to understand the origins and evolution

of tornadoes, on this heart-pounding science adventure.

Produced by Giant Screen Films and Graphic Films.

### ROCKY MOUNTAIN EXPRESS

Monday to Friday at 11:00 a.m. and 2:00 p.m.



Journey on a steam train through the Canadian Rockies for the ride of a lifetime. Discover the near magical efficiency of rail: a technology born in the age of steam and more vital than ever in an era

of increasing energy constraints.

Directed by Stephen Low and produced by Pietro L. Serapiglia and Alexander Low.

All films presented as part of the LG Film Series IMAX film schedule to March 9, 2012. Subject to change



## SUPER MONDAYS

A series of themed Mondays with super special science shows.

2012: **The End of the World?** - Monday, December 5 and 19, 2011 (9-12)

**Bubble Blast** - Monday, January 16 and 30, 2012 (4-8)

**Extreme Engineering** - Monday, February 13 and 27, 2012 (4-8)

**Toying with Science** - Monday, March 26, 2012 (4-8)

**What a Waste! The Science of Garbage** - Monday, April 16 and 30, 2012 (4-8)

**The Science of Sport** - Monday, May 14 and 28, 2012 (9-12)