



Canada Science and Technology Museum

Museum mission

Museum mission questions

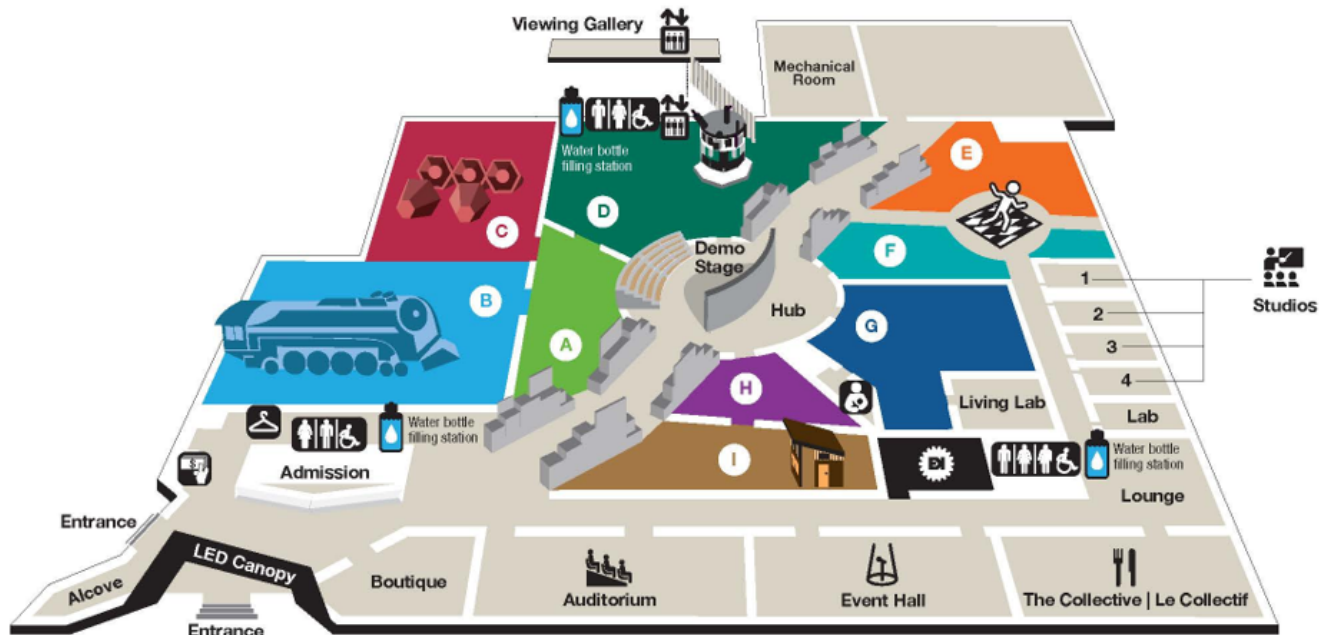
Ages 8-12



Recommended for young explorers ages 8-12*

Your mission — should you choose to accept it — is to explore the museum and gain as much knowledge as possible!

***Reminder:** Children under 12 must be accompanied by an adult at all times.



- Artifact Alley**
Stroll through interactive displays and over 700 artifacts.
- A Into the Great Outdoors**
See how people use technology to get outdoors and experience Canada.
- B Steam: A World in Motion**
Explore a time when steam made Canada—and the world—go round.
- C Sound by Design**
Hear and see what happens when sound meets design.
- D From Earth to Us**
Explore how we transform natural resources to make the everyday things in our lives.
- E Medical Sensations**
Explore the world of medicine through the five senses.
- F Hidden Worlds**
Engage with microscopes, telescopes, and interactives to explore worlds beyond our reach.
- G ZOOM (ages 0-8)**
A hands-on space where children can imagine, build, test, try...and try again!
- H Wearable Tech**
Discover a range of innovative technologies designed for the body.
- I Technology in Our Lives**
See the gadgets, tools, and appliances that shape our lives.
- Exploratek**
A tinkering space dedicated to learning by doing.

Artifact Alley-Stroll through interactive displays and over 700 artifacts.

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- I. **Technology in Our Lives**-See the gadgets, tools, and appliances that shape our lives.
- **Exploratek**-A tinkering space dedicated to learning by doing.
- **Crazy Kitchen +** -Challenge your perceptions and experience illusions that play with your senses.



Artifact alley

Where am I?

Start your hunt at the front of the museum, and first up is Artifact Alley! Look around for these items.

1. Stand on the ice floe. Who comes to visit?
 - a. Polar Bear
 - b. Seal
 - c. Fish
 - d. Penguin

2. Find me: I am tall, have two cylinders, and was used to pump gas. What colour am I?
 - a. Red
 - b. Blue
 - c. Yellow
 - d. Green

Bonus points if you turn my lights on!





Steam: a world in motion

3. Name the four locomotives on display:

1. _____

2. _____

3. _____

4. _____

4. What kind of engine do they use?

5. Find the Triple Expansion Steam Engine. What was this engine built to power?





Sound by design

Quiet cube

After the locomotives, head to the Sound by Design exhibition.

Find the Quiet Cube



6. What is the Quiet Cube designed to do?

- a) Protect your ears
- b) Help you take a nap
- c) Make a lot of noise
- d) Eliminate echoes

Go inside!

7. According to the decibel meter, what is the sound level in the exhibition hall?

_____decibels

As you are leaving Sound by Design spin the wheel at the top of the ramp at Explore Canada.

8. What is your next great Canadian adventure?

9. Can you find where your adventure will take place on the map



From earth to us

Energy: How do we power our lives?

10. Which home appliance uses the most energy?

- a) TV
- b) Dryer
- c) Heater



Go to Canada's Energy map.

11. Which energy sources does Ontario NOT have?

Wind

Coal

Fossil Fuels

Tidal

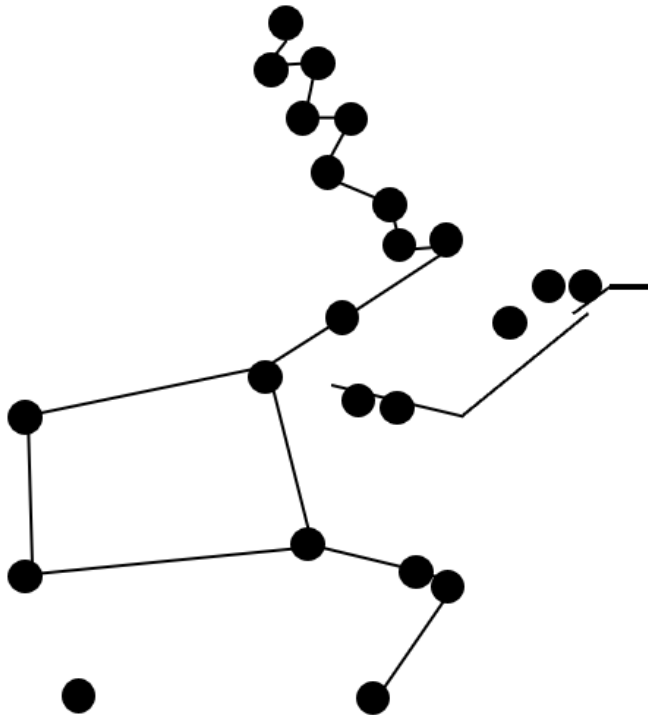
Solar



Hidden worlds

Discover the stars

12. Find the Indigenous Star Charts along the back wall of Hidden Worlds. Look at the Ojibwe Star Chart.



13. What animal does this constellation represent?

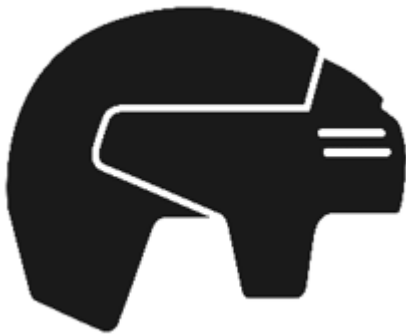


Wearable tech

Suit yourself!

Little force, big impact.

14. Can you make the light turn orange?



Assessment required?

15. What force of acceleration would require that a person be assessed for a concussion?

- a) 30 gs
- b) 80 gs
- c) 50 gs

Get connected!



16. Find the Hexoskin Biometric Shirt. Who wore it?

17. Where did she win a gold medal?

- a) 2012 Olympics in London, England
- b) 2016 Olympics in Rio, Brazil
- c) 2004 Olympics in Athens, Greece



This lesson plan was produced by the Canada Science and Technology Museum.

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