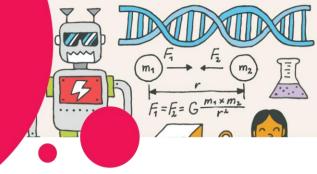
MUSEUM MISSION





Recommended for explorers ages 12+

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







Exhibitions

Entrance



Stroll through interactive displays and over Artifact Alley

Into the Great Outdoors 700 artifacts.

See how people use technology to get outdoors

and experience Canada.

Explore a time when steam made Canada—and Steam: A World in Motion the world—go round.

Hear and see what happens when sound Sound by Design meets design.

Explore how we transform natural resources to make the everyday things in our lives. From Earth to Us

0

Crazy Kitchen +
Challenge your perceptions and experience

Ø illusions that play with your senses.

Explore the world of medicine through the Medical Sensations ш

live senses.

Ш

digital interactives to explore worlds beyond Engage with microscopes, telescopes, and Hidden Worlds

our reach.

A hands-on space where children can imagine, Z000M (ages 0-8) build, test, try...and try again!

Discover a range of innovative technologies Wearable Tech designed for the body.

See the gadgets, tools, and appliances that shape Technology in Our Lives



A tinkering space dedicated to learning by doing.

2



INTO THE GREAT OUTDOORS

Enjoying Winter

How do snowshoes stop you from sinking deep in the snow?

On display, you will see Huron snowshoes, Ojibwe snowshoes, Yukon snowshoes, Bear Paw snowshoes and modified Bear Paw snowshoes.

Why are their shapes different from each other?





Freedom on Two Wheels



Starting in the 1880s, safety bicycles introduced ingenious design elements that we use to this day. Name three elements which improved the bike:

1._____

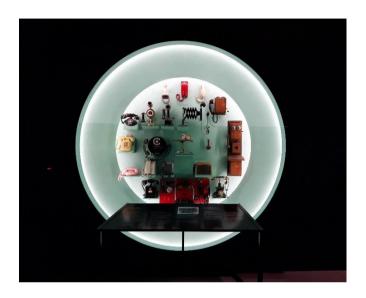
3
Pathways to Adventure
What was the cost of a convertible car in the late 1940s?
How long did it take Rosemary and her friends to drive from Vancouver to Ottawa along the Trans-Canada Highway? What distance did they travel?
n which decade did people start using planes to get to the outdoors?



STEAM: A WORLD IN MOTION

Name the four locomotives on display:	6400
1	
2	
3	1 5
4	
What kind of engine do they use?	
How many kilometres of track were built across Canada between 1907 and 1956?	
How many immigrants came to Canada be	etween 1900 and 1950?
Almost all of them arrived using the power	of

SOUND BY DESIGN



Seeing Sound

Which controversial invention lead to the invention of the telephone?

Who invented it? _____

Soundscape Design

Which Canadian composer coined the term, "soundscape"?

Give an example of soundscape design:



Making Silence

Go to the Quiet Cube. Do you hear an echo? An anechoic chamber is built to eliminate echo and noise.

What is used to get rid of echoes in an anechoic chamber?

Design Icons

The Grammy award was named after what?

Electronic Instruments

We can play it without ever touching it. What is this instrument?





FROM EARTH TO US

Throughout the exhibition, you will find white circles with green recycling symbols. These contain information on the recyclability of different materials. While in this exhibition, keep an eye out for these signs and answer the questions below:



Material	Is it recyclable?	What percentage can be recycled?
Metal		
Composites		
Polymers		
Ceramic		
Plastic toys		
Smartphone		
Steel		
Smart car		
Toaster		



Changing Climate, Changing World

What is global warming?	
What is climate change?	



How do scientists learn about past climates?

Mining: Why we really Dig Earth!

Which raw materials do we mine to make the follow	ving?	?
---	-------	---

Glass → _____

Plastic ->

Structures →



Energy: How do we Power our Lives?

Which home appliances use the most energy?

Tablet	or	T١	/

Which one uses the most energy of all?

What percentage of global hydroelectricity is produced in Canada?





MEDICAL SENSATIONS

Touch

How are 3D printers used in medicine?
What were two uses of the Clay Anatomical Model?

Smell and Taste

A doctor's first clues about an illness often come from the smell of the patient's body. Associate the following smells to the disease:

a. Butcher shop

i. Diabetes

b. Fish

- ii. Typhoid
- c. Freshly-baked bread
- iii. Liver failure
- d. Nail polish remover
- iv. Yellow Fever

At what angle is the slope of the Crazy Kitchen? _____

What three words does the sphere of letters in the *Out of the Shadows* artifact spell?



HIDDEN WORLDS

Name three Ininew constellations:	LOOKING NORTH DIRECTION NORD
Name three Ojibwe constellations:	
Name three D(L)akota constellations:	
	POPANAS SOUTH DIRECTION SUB-
Beyond Earth	
What is the difference between	a reflecting and a refracting telescope?

Magnificent Magnifiers

A simple microscope with a single lens can magnify up to 200 times. What about a compound microscope? ______ What about an electron microscope? ______



WEARABLE TECH

Pet Projects

What information does the SeeHorse Biometric Monitor tell you about your horse?

Dogs have different characteristics that allow them to do things humans cannot. Rescue gear has been created for them to wear to help them do the following:

Suit Yourself

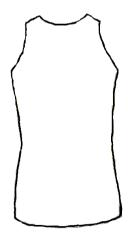
Find the unique apparel created by Inuit women. What is it called?

Get Connected:

What is the purpose of the Hexoskin, the biometric suit?

Draw the location of the breathing sensors within the Hexoskin on the diagram.

What is the name of the Canadian Olympic champion wrestler from Ottawa who trained with this Hexoskin?





Body Shop:

A regular heartbeat is essential for ensuring the body gets the oxygen and nutrients it needs. How does a pacemaker keep the heart beating in rhythm?

Ocular prostheses can be useful despite the fact that they do not provide sight. Name two uses for them.



TECHNOLOGY IN OUR LIVES

Consumer Culture:

What was the proportion of women in the paid labour force during wartime?



How old were you when Kijiji was launched?
What was the main contributor of Canada's population growth in 1999?
Name a household item that was once considered a luxury but is now a necessity. Do you agree?
The Weight of our Stuff:

In the work by artist HA Schult, what do the "trash people" represent?

