

This worksheet will help guide you as you investigate our exhibits.

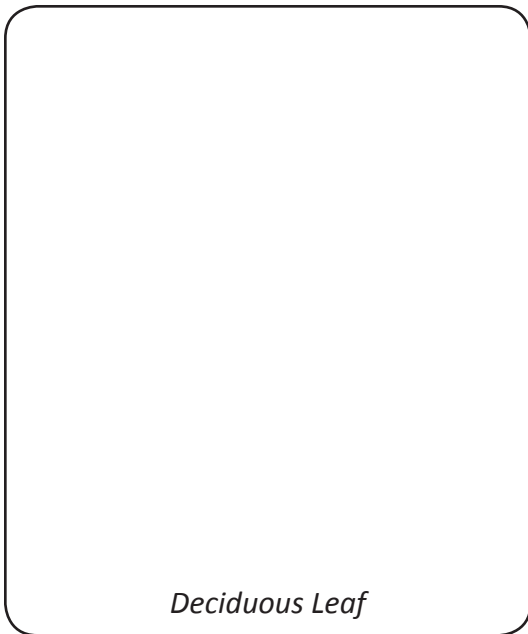
Name(s): \_\_\_\_\_

Time to Complete: 1.5 hours

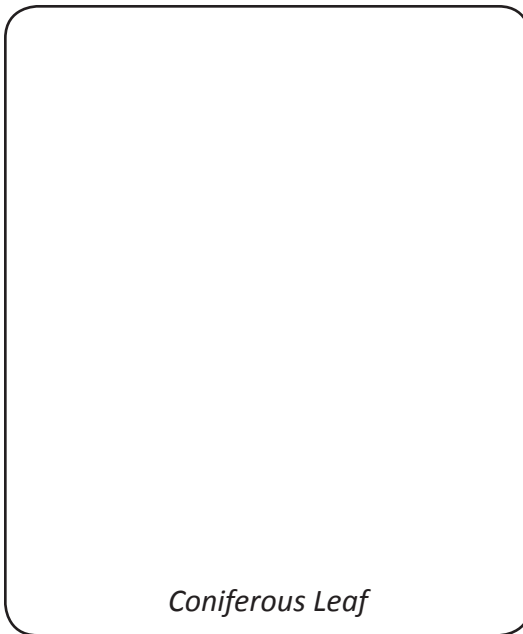
## A. HABITATS AND COMMUNITIES

### 1. Find the exhibit called **Can You Name These Trees?**

- a. Sketch two leaves of your choice, one deciduous (with leaves) and one coniferous (with needles).



*Deciduous Leaf*



*Coniferous Leaf*

- b. Northern environments have many coniferous trees. How do you think evergreen needles are adapted to cold climates? You may come up with your own theory, ask a friend, ask a Host, or ask the internet. *One hint: When the summer is shorter, plants have less time for photosynthesis.*

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Where to go:

Forest Lane

LEVEL

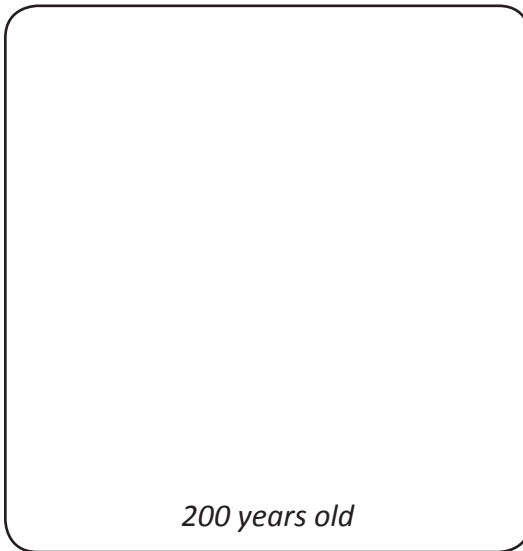
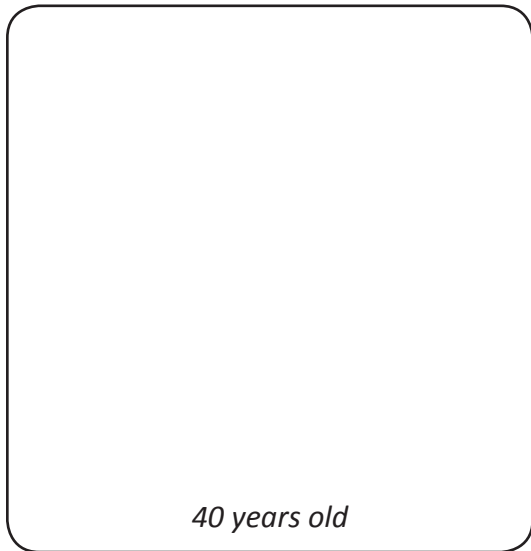
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*Can You Name These Trees?*

2. Find the exhibit called **Bigger Isn't Always Older**.

Sketch each tree cross section and observe the rings.



Where to go:

Forest Lane

LEVEL

6



*Bigger Isn't Always Older*

How much time does one ring represent? \_\_\_\_\_

Which tree has rings that are closer together? \_\_\_\_\_

What does this tell you about the tree's habitat?

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3. Find the Sitka Spruce cross section on the floor, and ask some friends to help you. How many of you can fit into the spruce? \_\_\_\_\_

Walk (or look) outside in the **Cohon Family Nature Escape**. This is an *urban forest ecosystem*. (Note: only open from Spring to Fall.)

4. What makes it an urban forest?

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5. If you were a raccoon, would you like to live in an urban forest? Why or why not?

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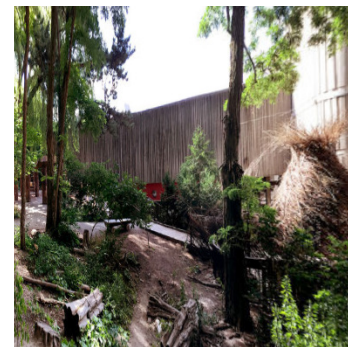
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Where to go:

Cohon Family  
Nature Escape  
(outside)

LEVEL

6



### 6. Find the **invasive species fish tank**.

a. Which fish do you think was once a pet? Describe it below:

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b. How do you think it got into the stream where it was collected?

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Where to go:

The Living Earth LEVEL

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*Invasive Species Fish Tank*

### 7. Enter the **Rainforest**.

a. Describe what the rainforest looks and feels like.

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b. How is it different from a forest in Ontario?

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c. Many rainforest plants compete with one another for light. Describe two adaptations that would help plants absorb as much sunlight as possible. *Hint: Look around you for some ideas.*

1. \_\_\_\_\_

2. \_\_\_\_\_

d. Find the **poison dart frogs** in the Rainforest. Describe one of their adaptations.

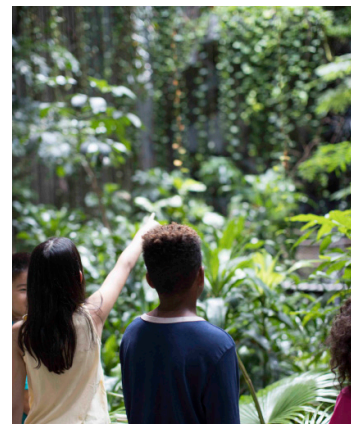
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e. Can you think of a Canadian species with a similar adaptation?

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*Rainforest*

### B. ROCKS AND MINERALS

8. Find the display called **Cool Formations**. Which of the following are real names for cave formations? Circle your answers:

Cave Sausages

Cave Bacon

Cave Pearls

Cave Swine

9. Find the **Fossilized Limestone**. *Hint: It contains Honeycomb Coral.* What does it tell you about what Ontario used to be like?

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10. Find the **Stalagmite cross section**. What do stalagmites have in common with tree rings?

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11. Sketch (and touch) the **Scalloped Limestone**:

What causes the dimples in the limestone?

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Where to go:

The Living Earth LEVEL

6



Fossilized Limestone



Stalagmite Cross Section

## C. PULLEYS AND GEARS

Where to go:

Science Arcade

LEVEL

6

12. Find the **pulley exhibit** in the Science Arcade

a. Which load takes the *least* effort force to lift?

A                      B                      C

b. Which load takes the *most* effort force to lift?

A                      B                      C

c. Count the pulley systems supporting each 6kg weight. Can you explain why each feels different?

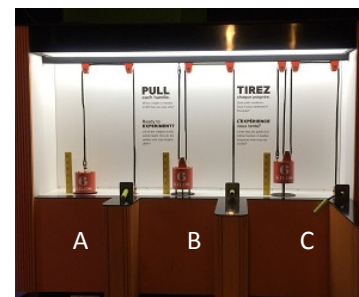
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d. To lift each weight 30 cm, estimate how far you pull. *Hint: Look for the ruler beside each weight.*

- i. To lift weight A 30 cm, I pull \_\_\_\_\_ cm.
- ii. To lift weight B 30 cm, I pull \_\_\_\_\_ cm.
- iii. To lift weight C 30 cm, I pull \_\_\_\_\_ cm.



PULL

## D. LIGHT AND SOUND

13. Find the **Shadow Tunnel** and leave your shadow behind! Draw it below:

The walls of the tunnel absorb light energy and release it slowly. What other objects could be made from the same material? *Hint: Think of things that glow in the dark.*

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14. Find the **musical metal** exhibit.

Where to go:

Science Arcade

LEVEL

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a. Predict which rod will have the lowest pitch, and explain your reasoning.

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b. Try playing “Twinkle Twinkle Little Star” on this instrument. You may team up with a friend if you’d like. How did you do?

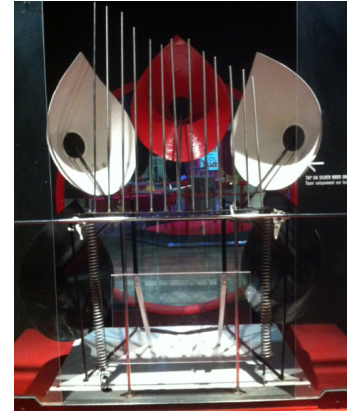
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c. Try again on the steel drums next door. Which did you find easier, and why?

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*Musical Metal Exhibit*