

## ***Weathering the Changes: Climate Change in Ontario***

### ***The Causes of Climate Change***

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Group Members: \_\_\_\_\_

#### **Did You Know?**

1. How much carbon dioxide is produced by every litre of gasoline used in your car?

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2. “Jackrabbit” starts use 50% more of what product than if you accelerate gradually?

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3. What does one third of the carbon dioxide emissions created by human activities come from?

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#### **The Climate System – A Balancing Act**

4. Which greenhouse gas is made by landfills and wetlands?

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<b><u>Connections</u></b>	<b><u>Reflections</u></b>	<b><u>Questions</u></b>
<i>What connections can you make among what you've learned, your lifestyle, your family, school, community, or other regions?</i>	<i>Reflect on your learning, understandings, and discoveries. "Write about one thing you did not know before starting this activity"</i>	What questions do you still have, or what new questions have been raised?

## ***Weathering the Changes: Climate Change in Ontario***

### ***The Consequences of Climate Change***

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Group Members: \_\_\_\_\_

#### **Did You Know?**

1. Why may the cold-water fish species such as lake trout disappear from southern Ontario?

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#### **Future Climate**

2. What is predicted to happen along with climate change warming in Ontario?

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3. By looking at the global map, what regions would you conclude may have the most significant changes?

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#### **Where We Live**

4. How are storms such as thunderstorms expected to change?

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5. How would shorter winters affect people?

\_\_\_\_\_

6. What changes do experts predict with climate change?

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7. How many households in total lost power in the January 1988 ice storm?

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**Our Health**

8. What climate factors can affect our health?

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9. Compared to today, how many hot days over 35 degrees Celsius may southern Ontario experience by the middle of the next century?

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10. How will warmer daytime temperatures affect smog?

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11. What causes the “urban heat island effect”?

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**Our Water**

12. What concerns are there when water supplies are warmer?

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13. How will lower water levels affect shipping?

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14. How will the Great Lakes be affected by climate change?

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**Our Farms**

15. What are the positive and negative consequences of climate warming for farmers in Ontario?

**Positive**

**Negative**

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## **Our Forests**

16. What may be some of the effects on forests and forestry with the changes in climate?

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<p><b><u>Connections</u></b> <i>What connections can you make among what you've learned, your lifestyle, your family, school, community, or other regions?</i></p>	<p><b><u>Reflections</u></b> <i>Reflect on your learning, understandings, and discoveries. "Write about one thing you did not know before starting this activity"</i></p>	<p><b><u>Questions</u></b> <i>What questions do you still have, or what new questions have been raised?</i></p>
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## ***Weathering the Changes: Climate Change in Ontario***

### ***Action on Climate Change***

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Group Members: \_\_\_\_\_

#### **Did You Know?**

1. How can you change the frequently used regular light bulbs in your home to save 100 kg of CO<sub>2</sub> per year?

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2. What should you do with your laundry to save up to 225 kg of CO<sub>2</sub> per year?

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3. What are the benefits of no-till farming?

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#### **Where Do We Go From Here?**

4. What protocol did 160 nations originally negotiate to reduce global greenhouse gases?

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5. What does this protocol do?

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6. What is a “walking school bus”?

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7. What can help reduce greenhouse gas emissions from heating and cooling by shading buildings?

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<b><u>What I am already doing...</u></b>	<b><u>What I can begin to do...</u></b>