

The Tides of Change: Climate Change in Atlantic Canada

The Causes of Climate Change

Name: _____

Date: _____

Group Members: _____

Did You Know?

1. Although Canada has only 0.5% of the world's population, it produces 2% of this.

The Greenhouse Effect

2. What are "the big three" greenhouse gases?

3. Why does CO₂ have the greatest influence?

The Air We Breathe

4. What are three types of fossil fuels?

5. What are fossil fuels used for?

6. What does burning fossil fuels do?

7. What activity is responsible for 26% of greenhouse gas emissions in Canada?

How Do We Measure Up?

8. Looking at the Annual Greenhouse Gas Emissions per capita data, how many tonnes of CO₂ was each Canadian emitting?

9. In Atlantic Canada, what are the four areas contributing most to greenhouse gas emissions?

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

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Did You Know?

1. What are all species in the marine food web affected by?

Is Climate Changing?

2. What is happening to most of the world's glaciers?

3. Find the Temperature Change maps. What areas of the map show the greatest temperature change?

Freshwater Issues

4. How could hydro-electricity be affected by climate change?

Forests in Peril?

5. Why might the Gypsy moth threaten Canadian forests if warming continues?

Storm Surges and Coastal Flooding

6. Why may storm surges cause more frequent and severe flooding?

Down on the Farm:

7. What is the greatest concern for agriculture in Atlantic Canada?

8. How would more storms, hail, floods and droughts affect farms?

9. Make a list of positive and negative consequences for farmers if global warming continues.

Positive

Negative

Rising Sea Level and Vanishing Coasts:

10. What specific types of coastal areas will be most affected by sea-level rise?

Sea Ice and Icebergs:

11. What will happen to sea ice with global climate change?

12. What benefits and concerns would there be with less sea ice?

Changing Ecosystems

13. How will climate change affect vegetation zones?

14. How will wildlife populations handle a changing ecosystem or habitat?

<u>Connections</u>	<u>Reflections</u>	<u>Questions</u>
<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?

The Tides of Change: Climate Change in Atlantic Canada
Action on Climate Change

Name: _____

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Group Members: _____

Did You Know?

1. What percent does Canada aim to reduce its emissions by under the Kyoto Protocol?

2. What is the fastest, cheapest and surest way to reduce greenhouse gas emissions?

Let's Meet the Challenge:

3. When we save energy or replace fossil fuels, what do we help to do?

4. What are some low-emission ways to travel?

5. What are five other types of energy that would reduce greenhouse gas emissions?

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