

A Change in the Wind: Climate Change in Quebec

The Causes of Climate Change

Name: _____

Date: _____

Group Members: _____

Did you know?

1. What emits over three times its weight in CO₂ every year?

2. What greenhouse gases retain 21 times more heat than carbon dioxide?

3. One third of greenhouse gas emissions in Quebec are the direct result of what?

Emissions – How Do We Measure Up?

4. What are the top 3 sources of greenhouse gas emissions in Quebec?

What is Climate Change?

5. What are three examples of human activity that have enhanced the naturally occurring greenhouse effect?

6. Of the three main greenhouse gases, which one has the greatest impact because it is the most abundant?

<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>	<i>What questions do you still have, or what new questions have been raised?</i>

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The Consequences of Climate Change

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Did You Know?

1. What severe weather phenomenon costs \$10-\$15 million annually in Quebec?

2. What Quebec city is frequently hit by severe weather events?

3. Which regions are likely to be most affected by a warmer climate?

4. What will happen to caribou herds with an increase in temperature?

A Climate in Constant Flux

5. When have ten of Quebec's warmest years of the century occurred?

6. Looking at the global map, what areas are expected to have the greatest temperature change in the next 50 years?

7. What do the three graphs show about how the temperature may change by the year 2100?

Our Health

8. What is the most direct health risk from warming climates?

9. Will warming increase or decrease the amount of smog?

10. What are four indirect impacts of climate change on human health?

Extreme Weather – What are the Risks?

11. What are examples of severe, or extreme weather events that may increase with global warming?

Could a Warmer Climate Mean a Shortage of Water?

12. How might climate change alter snow and rainfall patterns?

13. What might be the effects of droughts and reduced groundwater, as a result of climate change, on humans?

14. How are fish affected when groundwater changes due to changes in precipitation?

A Dynamic Forest:

15. What will happen to the tree line in Quebec?

16. How may precipitation and forest fires be changed with global warming?

What about the Far North?

17. How has the permafrost been affected by the climate warming?

18. What specific impacts to northern communities will occur if the permafrost melts?

19. How will tree growth be affected by climate warming?

Wildlife Acclimates:

20. In what ways may animal species be affected?

Rising Sea Levels

21. What are potential impacts resulting from changes in the estuary and gulf?

Our Farms

22. What are the positive and negative effects of climate change on Quebec's agriculture?

<p><u>Connections</u></p> <p><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></p> <p><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></p> <p><i>What questions do you still have, or what new questions have been raised?</i></p>
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Action on Climate Change

Name: _____

Date: _____

Group Members: _____

We Can All Help

1. What must we do to slow the effects of climate change?

2. What are 6 ways we can help?

Our Health

3. What actions can help to improve air quality?

What I am already doing...

What I can begin to do...

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