

Temperature Rising: Climate Change in Southwestern British Columbia

The Causes of Climate Change

Name: _____

Date: _____

Group Members: _____

Did You Know?

1. How much water does each person use at home every day?

2. What is the source of nearly 30% of the greenhouse gas emissions in the lower Fraser Valley?

3. What animals are shown as methane producers?

Why is Climate Changing Now?

4. What turning point saw additions of CO₂ to the atmosphere overtake removals?

5. What are the causes of the rapid build-up of CO₂ in our atmosphere?

How Do We Measure Up?

6. Out of individual household CO₂ emissions, what % does automobile use put out?

7. What activities contribute to 75% of CO₂ emissions that are not individually produced?

<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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Is Climate Changing?

1. How do glaciers behave when climate changes?

2. By how much is the global temperature expected to rise above 1980 levels by the year 2100?

3. Where does the global map indicate the most significant temperature changes will occur?

The Air We Breathe:

4. What gets trapped in the Fraser Valley?

5. What will happen to the number of “bad air” days as climate warms?

Coastal Floods and Failing Ships

6. What are the predictions for future winters in coastal British Columbia?

7. Are slopes more or less at risk with wetter winters? Explain.

Rising Seas:

8. As climate warms, what will happen to glaciers?

9. What areas are most vulnerable to rising sea levels?

10. What is the “coastal squeeze”?

Salmon in Hot Water:

11. Why might tuna and mackerel replace salmon stocks in southern B.C.?

12. How might salmon be affected with warmer waters?

Low-Water Blues:

13. What industry will largely be affected by changes in river flow with climate warming?

Forests in Transition:

14. What impact will climate warming have on the B.C. forest industry and economy?

Down on the Farm

15. What impacts of warming will have “mixed blessings” for the interior of B.C.?

16. How will climate warming influence pest impacts on crops?

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

Name: _____

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Group Members: _____

Let's Meet the Challenge

1. What ideas will help reduce greenhouse gas emissions?

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