

## ***Degrees of Variation: Climate Change in Nunavut***

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

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

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

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

#### **Climate Change- The Basics**

1. What human factors contribute to climate change?

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2. What greenhouse gas is most closely connected to human activities?

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#### **Did you know?**

3. What human activity is a major source of greenhouse gas emissions?

\_\_\_\_\_

4. How much CO<sub>2</sub> is produced for every litre of gas used in your vehicle?

\_\_\_\_\_

#### **The Challenge**

5. What activity is responsible for 53% of the residential emissions of CO<sub>2</sub>?

\_\_\_\_\_

6. How does Canada rank globally for CO<sub>2</sub> emissions?

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

## ***Degrees of Variation: Climate Change in Nunavut***

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

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

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

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

#### **Did you know?**

1. Where do climate models predict the greatest warming will occur?

\_\_\_\_\_

2. If the Greenland Ice Sheet melts, by how much will the global sea level rise?

\_\_\_\_\_

#### **The Current Conditions**

3. By looking at the graph, Frequency of Intense Winter Storms, what can you conclude about these storms in the northern hemisphere?

\_\_\_\_\_

#### **Of Ice and Men**

4. What traditional northern activities depend on sea ice?

\_\_\_\_\_

#### **Life at Sea**

5. What do scientists predict will happen to the range of many marine species as climate changes?

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6. What animals need strong sea ice to breed, nurse pups and rest?

\_\_\_\_\_

7. How will Inuit hunters be affected as animals change their range in response to climate change?

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8. According to the News North, when it gets too warm, what do the animals do?

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**Glaciers and Sea-Level Rise**

9. What are the impacts of sea level rise?

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**Northern Landscapes**

10. What is found beneath the ground surface in nearly all of Nunavut?

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11. How will people be affected if the permafrost thaws?

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12. How will the food supply of herbivores be affected by climate change?

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13. How will birds be affected by warming of the Nunavut region?

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**Life on the Land**

14. What aspects of the north will be affected by the climate warming?

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**The Challenge**

15. How might human health be affected by climate change?

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**Connections**

*What connections can you make among what you've learned, your lifestyle, your family, school, community, or other regions?*

**Reflections**

*Reflect on your learning, understandings, and discoveries. "Write about one thing you did not know before starting this activity"*

**Questions**

*What questions do you still have, or what new questions have been raised?*

***Degrees of Variation: Climate Change in Nunavut***

***Action on Climate Change***

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

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

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

***The Challenge***

1. What do thermosyphons do?

\_\_\_\_\_

1. What does a photovoltaic array do?

\_\_\_\_\_

2. What are five things you can do to help?

\_\_\_\_\_

\_\_\_\_\_

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