**Our Impact on Climate**

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**Global Warming** is a \_\_\_\_\_\_\_\_\_\_\_\_\_ trend caused by unnatural changes in the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

Global warming is thought to cause weather extremes such as \_\_\_\_\_\_\_\_\_ waves, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_\_, and \_\_\_\_\_\_\_\_\_\_\_\_.

Burning \_\_\_\_\_\_\_\_\_\_\_\_\_ fuels is a major \_\_\_\_\_\_\_\_\_\_\_\_ of global warming.

Most scientists and environmentalists agree that world \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

Look at figure 14.3 and answer questions #4 a, b and #5.

List 4 methods that scientists have used to assess (measure) climate change: (you will have to search for these on more than one page)

Answer questions #6 a and b, #7 a, b, c and d.

Climate change may create a warmer Canadian climate, however, it may also lead to food \_\_\_\_\_\_\_\_\_\_\_if we can’t grow food in the Prairies and also \_\_\_\_\_\_\_\_\_\_ shortages as the Great Lakes evaporate.

Some people say that we shouldn’t worry about global warming since the Earth’s temperatures have always gone up and down, however, past climates changed very \_\_\_\_\_\_\_\_\_\_\_\_, unlike the \_\_\_\_\_\_\_\_\_\_ change in recent years.

In the past one million years, there have been \_\_\_\_\_\_\_\_ or more \_\_\_\_\_\_\_ ages, or \_\_\_\_\_\_\_\_\_\_ periods.

List the gases that are responsible for the sharp short-term rise in world temperature.

What gas is now banned from use in industrialized countries?

Define and give the example/explanation for **shortwave radiation**.

Define and give the example/explanation for **longwave radiation**.

Draw the diagram for GREENHOUSE EFFECT (Fig. 14.7 – the one on the right) and list the 3 points given on how it works.

Humans can live on Earth because of a similar effect. If \_\_\_\_\_\_\_\_\_\_\_, water vapour, and \_\_\_\_\_\_\_\_\_ in the atmosphere didn’t \_\_\_\_\_\_\_\_\_\_\_ and hold the sun’s heat energy, Earth would be too \_\_\_\_\_\_\_ during the day and very \_\_\_\_\_\_\_\_\_ at night. The gases that absorb heat are called \_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_.

**Impact of Climate Change on Canada**

As climate change, all \_\_\_\_\_\_\_\_\_\_\_\_ things are affected. For example, warmer conditions will mean that \_\_\_\_\_\_\_\_ will be able to survive farther \_\_\_\_\_\_\_\_\_, replacing large areas of \_\_\_\_\_\_\_\_\_\_. This could benefit \_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_, but it is bad news for \_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_ since their \_\_\_\_\_\_\_\_\_\_\_ (homes) will change quickly, leading to endangerment or \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

What affects have summer heat waves had in the Great Lakes – St. Lawrence region?

Answer #17.

Answer #18.

Answer #19 a, b, c and d

Answer # 21 a and b