

CGC1D Global Warming, Climate Change and the Greenhouse Effect

The three terms used in the title above are all used widely in public discourse. In this section of the course we will find out what they mean and how they affect our lives on planet Earth. We will be using pages 328 – 337 and pages 344 – 346 from the Encounter Canada Textbook. You will answer the following questions on lined paper.

1. Define the Following Terms: **Global warming, climate change, greenhouse effect, carbon-oxygen cycle, fossil fuels, evaporation, transpiration, evapotranspiration, Kyoto Protocol.**
2. By studying figures 7.12 (pg 328) and 7.15 (pg 331), what two conclusions can you make?
3. List and briefly describe in point form the **natural processes** that are part of the carbon-oxygen cycle.
4. Give three examples of how people affect the carbon-oxygen cycle.
5. What does the greenhouse effect have to do with global warming?
6. Explain the difference between global warming and climate change.
7. Carbon Dioxide is the main greenhouse gas. Do some quick research on three other greenhouse gasses (Methane, Chlorofluorocarbons and Nitrous Oxides) and make a chart like the one below to record your answers:

Greenhouse Gas	Source of the gas	Impact compared to Carbon Dioxide	How the gas can be controlled.
Methane			
CFCs			
Nitrous Oxides			

8. What are 3 possible environmental changes that could occur because of climate change?
9. Predict the impact of environmental change (due to climate change) on the following occupations:
 - i) Ski Resort Owner at Mt. Cascades
 - ii) Fisher in Port McNeil, Nova Scotia
 - iii) Home Builder in Burlington, Ontario
 - iv) Pest Control Technician in Winnipeg
 - v) Lawn Maintenance Worker in Calgary
 - vi) Oceanfront B&B owner near Charlottetown, PEI
 - vii) Wheat Farmer in southern Saskatchewan
 - viii) Hunter in Nunavut
 - ix) Real Estate Agent in northern Alberta
10. Carefully re-read pages 334 & 335 (A Geographer's Crystal Ball) and answer the 9 questions on page 335.