**Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Date** **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Earth Space Science**

**Brief-Constructed Response**

**Understanding Climate**

1. Explain the factors that determine the climate of your region. Be sure to:
   * Identify the climate type in your region
   * Describe the main characteristics of your region’s climate type
   * Identify three factors that influence the climate of your region and explain how they influence the climate.
2. Explain why reducing the use of fossil fuels is an important step in addressing the problem of global warming. In your response:
   * Identify the major greenhouse gas released by burning fossil fuels.
   * Explain how greenhouse gases affect the atmosphere, including how they are necessary for life as we know it on Earth.
   * Describe at least two ways in which increasing the amount of greenhouse gases in

the atmosphere can negatively affect life on Earth.

1. How do changing ocean conditions, affect global weather patterns? Use the example of the El Niño Southern Oscillation to help you explain your answer.