

Name: \_\_\_\_\_ Date: \_\_\_\_\_ Teacher: \_\_\_\_\_ Period: \_\_\_\_\_

If you worked with other students, their name(s): \_\_\_\_\_

**Directions:** Draw 2 arrows from each evidence box, one to each model. You will draw a total of 8 arrows.

**Key:**

|   |   |
|---|---|
|  | The evidence <b>supports</b> the model                      |
|  | The evidence <b>STRONGLY supports</b> the model             |
|  | The evidence <b>contradicts</b> the model (shows its wrong) |
|  | The evidence has <b>nothing to do with</b> the model        |

**Evidence #1**  
Atmospheric greenhouse gas concentrations have been rising for the past 50 years. Human activities have led to greater releases of greenhouse gases. Temperatures have also been rising during these past 50 years.

**Model A**  
Our current climate change is caused by increasing amounts of gases released by human activities.

**Evidence #3**  
Satellites are measuring more of Earth's energy being absorbed by greenhouse gases.

**Evidence #2**  
Solar activity has decreased since 1970. Lower activity means that Earth has received less of the Sun's energy. But, Earth's temperature has continued to rise.

**Model B**  
Our current climate change is caused by increasing amounts of energy released from the Sun.

**Evidence #4**  
Increases and decreases in global temperatures closely matched increases and decreases in solar activity before the industrial revolution.