Student Worksheet: Claim, Evidence, Reasoning

In this activity you will write a claim to answer the question: What is causing the global average temperature on Earth to increase?

A. For each figure, write a brief summary statement of what is being shown. What is the main concept or point being conveyed by the figure? Be sure to use the example format for your answers.

Ex) Figure 5 shows the carbon emissions from burning coal, oil, gas, and producing cement from 1850 to 2012. All areas are showing an overall increase in emissions with the total carbon emissions totaling over 8,000 million metric tons.

1. Graph Title: ____________________________________________________________
   Summary:

2. Graph Title: ____________________________________________________________
   Summary:

3. Graph Title: ____________________________________________________________
   Summary:

4. Graph Title: ____________________________________________________________
   Summary:
5. Graph Title: _____________________________________________________________________________________________________
Summary

6. Graph Title: _____________________________________________________________________________________________________
Summary

7. Graph Title: _____________________________________________________________________________________________________
Summary

8. Graph Title: _____________________________________________________________________________________________________
Summary:
B. Using the information you collected, make a claim to answer the question: What is causing the global average temperature on Earth to increase? Ex) Global temperatures have risen over the past century because there are more hot air balloons. (Use the underlined part of the statement to start your claim.)

Claim:

C. Give evidence to support your claim. Provide scientific data from the graphs and figures you were given. Include specific pieces of data.

Evidence:

D. Is there any information you feel like you're missing? Explain.

E. Give reasoning to explain why your evidence supports your claim. Why is your evidence important? Describe what it means that Earth’s temperature is rising and why your evidence allowed you to determine that the Earth is warming because of those reasons.

Reasoning:

F. After giving evidence and reasoning, would you revise your claim? Is there more info that you need?

Revise: