Name _____                    Mr. Amidon
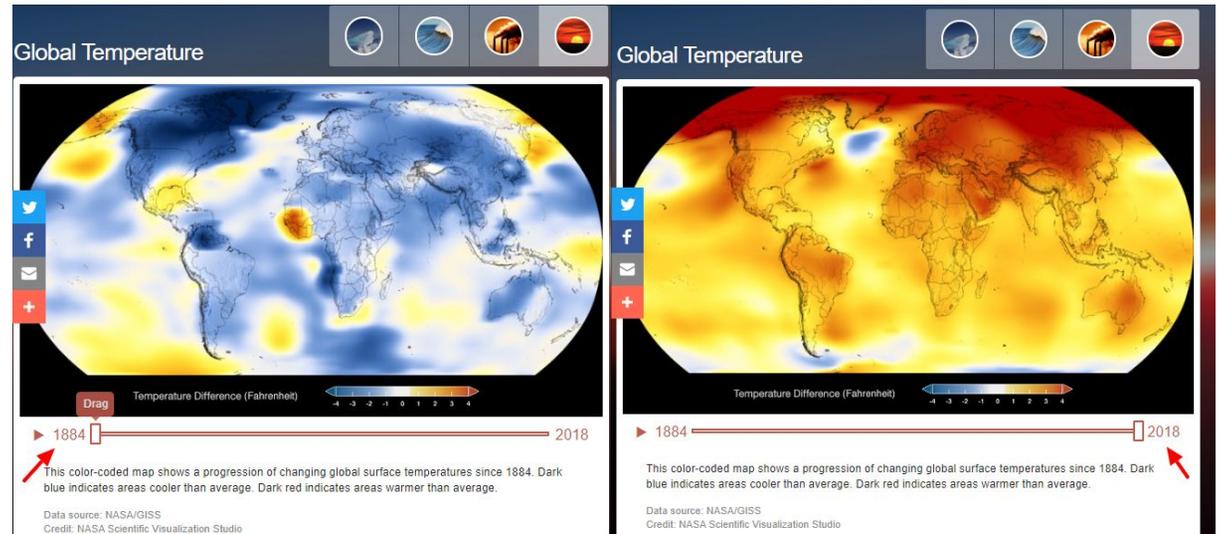
# Climate Change CER Statement & Rubric

*Despite what you may hear in the news, data strongly supports the notion that we are experiencing global climate changes. For example, the maps below show global temperature patterns as displayed on the* [NASA Climate Time Machine](#).

*They show a marked change between 1884 and 2018.*

**Based on the activities we have completed, what do you think is causing Climate Change?**



Based on our investigations, write a CER statement explaining what you think is causing Climate Change. Include at least three pieces of evidence from our class activities to support your claim and write a minimum of two paragraphs supporting your reasoning. You need to directly reference each of our activities at least once.

## Climate Change CER Rubric

| COMPONENT | 4 Points | 3 Points | 2 Points | 1 Point | 0 Points |
|---|---|---|---|---|---|
| **\*Claim**<br>A statement that responds to the question asked or the problem posed | ● \*Makes an accurate and complete claim. | ● \*Makes an accurate but incomplete claim | ● \*Attempt is made, but does not make a claim, or makes an inaccurate claim | ● Attempt is made, but is unrelated to the prompt. | Not included |
| **\*Evidence**<br>Scientific data used to support the claim. | ● \*Provides appropriate and sufficient evidence to support claim. | ● \*Provides appropriate, but insufficient evidence to support claim. May include some inappropriate evidence. | ● \*Attempt is made, but does not provide evidence, or only provides inappropriate evidence (Evidence that does not support claim). | ● Attempt is made, but is unrelated to the prompt. | Not included |
| **\*Reasoning**<br>Using scientific principles to show why data count as evidence to support the claim. | ● \*Provides reasoning that links evidence to claim. Includes appropriate and sufficient scientific principles. | ● \*Provides reasoning that links the claim and evidence. Repeats the evidence and/or includes some scientific principles, but not sufficient. | ● \*Attempt is made, but does not provide reasoning, or only provides reasoning that does not link evidence to the claim. | ● Attempt is made, but is unrelated to the prompt. | Not included |
| **Formatting**<br>Follows the requirements outlined in the writing prompt. | ● Claim written as a statement<br>● 3 pieces of Evidence provided<br>● Reasoning is at least 2 paragraphs<br>● Every activity is directly referenced | ONE item is not true | TWO items are not true | ● THREE items are not true | All items are not true |
| **Professionalism**<br>Addresses writing style, including spelling, grammar & tone. | ● Few mistakes (<5) in spelling or grammar<br>● Overall appearance is neat and well organized<br>● Responses are in a professional tone. | ● 5-10 Spelling or Grammar mistakes<br>● Responses are in a professional tone. | ONE of the following is true:<br>● 15 or more obvious Spelling or Grammar mistakes<br>● Responses are casual in tone | ● 15 or more Spelling or Grammar mistakes<br>● Responses are casual in tone | Not included |

\*From Base Explanation Rubric (McNeill & Krajcik 2011)
(https://learningcenter.nsta.org/mylibrary/collection.aspx?id=GBdqFKABr0U_E).

*From Base Explanation Rubric (McNeill & Krajcik 2011)
(https://learningcenter.nsta.org/mylibrary/collection.aspx?id=GBdqFKABr0U_E).