**Scoring Rubric for Climate Science Arguments**

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| **Score** | **0** | | **1** | **2** | **3** | **4** |
| **1. Skeptics’**  **Argument (Claim, Evidence, and Justification)** | Does not present the skeptics’ argument. | | Presents the **skeptics’ claim.** | Presents the **skeptics’ claim and evidence.** | Presents the **skeptics’ claim, evidence,** and  **justification.** | Presents the **skeptic s’ claim, evidence,**  **justification**, and **reference(s).** |
| **2. Scientists’ Counter-Argument**  **The scientists’ counter-claim is the opposite of the skeptics’ claim.** | | | | | | |
| **a. Evidence** | Does not provide evidence or provides inappropriate or irrelevant  evidence. | Provides **1 type** of appropriate and relevant **scientific evidence**  (including one graph) | | Provides **2 types** of appropriate and relevant **scientific evidence,** (including one graph) | Provides **3 types** of appropriate and relevant **scientific evidence,** (including one graph) | Provides **more than 3** types appropriate and relevant **scientific evidence,** (including one graph). Also **includes references for source(s) of evidence**. |
| **b. Justification**  **(Reasoning)** | Does not provide justification or only provides justification that does not justify how the evidence supports the claim. | Provides **justification** of why the **1 type** **of scientific evidence** supports the claim. | | Provides **justification** of why each of **2 types of scientific evidence** supports the claim.  Explains the science using a short video or visualization or animation of trends. | Provides **justification** of why each of **3 types of scientific evidence** supports the claim.  Explains the science using a short video or visualization or animation of trends. | Provides **justification of** why each of **the more than 3 types of scientific evidence supports the claim.**  Explains the science using visualization or animation of trends. Also **includes references for source(s) of visualization or animation.** |
| **3. Rebuttal of Skeptics’ Argument** | Does not present the “rebuttal” of the skeptics’ argument. | Provides **1 type of scientific evidence** to rebut the skeptics’ evidence. | | Provides **2 types of scientific evidence** to rebut the skeptics’ evidence. | Provides **2 types of scientific evidence** to rebut the skeptics’ evidence and **justifies** why the skeptics’ evidence is not appropriate. | Provides **2 types of scientific evidence** to rebut the skeptics’ evidence and **justifies** why the skeptics’ evidence is not appropriate.  Also **includes references for source(s) of evidence and justification.** |

**References should be in formatted in American Psychological Association (APA) Style.**

**(See http://www.apastyle.org/).**