## **Claim-Evidence-Reasoning (C-E-R)**

Graphic Organizer

 **Question:**



**(Claim)**

**Write a statement that responds to the question.**



**Use scientific principles**

**and knowledge that you have about the topic to explain why your evidence (data) supports your claim.**

**In other words, explain how your data proves your point?**

**(paragraph format)**

**(reasoning)**



**(Evidence)**

**Provide scientific data to support your claim. Your evidence should be appropriate (relevant) and sufficient (enough to convince someone that your claim is correct).**

**This can be bullet points instead of sentences.**

## **Need help writing your REASONING?**

**Follow this path….**

* Re-state your claim.

# Step 1

**Step 2**

* Provide some scientific principles/knowledge that you already have about a topic.

# Step 3

* Provide data from the activity (lab, gizmo, etc.) that connects to the scientific principles/knowledge you mentioned in Step 2. Show that your data can be used to prove your claim.

**Step 4**

* + Wrap up your reasoning with a conclusion sentence that begins with a word such as "Therefore," "Hence," "Thus," "So," and re-state the claim.

**Claim-Evidence-Reasoning Rubric**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **0** | **1** | **2** | **3** |
| **CLAIM**  *A statement that answers the original question/problem.* | Does not make a claim, or makes an inaccurate claim. | Makes an accurate but incomplete or vague claim. | Makes an accurate and complete claim. | **X** |
| **EVIDENCE**  *Scientific data that supports the claim. Data needs to be appropriate and sufficient to support the claim.* | Does not provide evidence, or only provides inappropriate evidence (evidence that does not support claim). | Provides appropriate but insufficient evidence to support claim. May include some inappropriate evidence. | Provides appropriate and sufficient evidence to support claim. | **X** |
| **REASONING**  *Explain why your evidence supports your claim. This must include scientific principles/knowledge that you have about the topic to show why the data counts as evidence.* | Does not provide reasoning or provides reasoning that does not link evidence to claim using scientific principles. | Provides reasoning that links claim to evidence, but does not include scientific principles. | Provides reasoning that links the claim and evidence using scientific principles, but not sufficient. | Provides reasoning that links evidence to claim.  Includes appropriate and sufficient scientific principles. |

**Total Possible Points: 7**

**Total Points Earned:**

**Grade:**