**Claim • Evidence • Reasoning**

**Rubric**

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| --- | --- | --- | --- | --- | --- |
| **Conclusion: *Scientific Explanation*** | **Category** | **Beginning (0-2 pts)** | **Approaching (4pts)** | **Meets (6pts)** | **Exceeds (8 pts)** |
| **Claim**: *What Do You Know?*  **A statement or conclusion that answers the original question/problem** | Does not make a claim or makes an inaccurate claim | Makes an accurate but incomplete claim | Makes an accurate and complete claim | Claim is clear and reasons are provided with depth of explanation to support the claim. |
| **Evidence**: *How Do You Know That?*  **Scientific data that supports the claim. The 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 that does not support claim. | Provides appropriate and sufficient evidence to support claim. | Scientific evidence is drawn from multiple sources to support the claim. Connection to data collected is present. |
| **Reasoning**: *Why Does Your Evidence Support Your Claim?*  **A justification that connects the evidence to the claim. It shows why the data counts as evidence by using appropriate and sufficient scientific principles** | Does not provide reasoning or only provides reasoning that does not link evidence to claim | Provides reasoning that links claim and evidence. Repeats the evidence and or includes some scientific principles, but not sufficient | Provides accurate and complete reasoning that links evidence to claim. Includes appropriate and sufficient scientific principles to explain why the evidence supports the claim. | Explanations and organization of evidence strongly enhances communication of reasoning. Scientific information and vocabulary usage demonstrate depth of understanding of why the evidence supports the claim. |
| **Other** | Sources are not cited and/or some sources cited, but not related to reasoning | Sources are cited, but not properly and/or some sources cited, but not related to reasoning | Sources are cited in MLA format and relate to reasoning | More than 5 reputable science sources related to reasoning are cited in MLA format |

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**Sentence Starters**

|  |  |
| --- | --- |
| **Claim** | * It is my opinion that after doing the lab \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ * After doing the lab, I believe that \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| **Evidence #1** | * From the \_\_\_\_\_\_ activity, evidence to support my claim is \_\_\_\_\_\_\_\_\_\_\_\_ * One piece of evidence to support my claim is \_\_\_\_\_\_\_\_ from the \_\_\_\_\_\_\_\_\_\_\_ activity. |
| **Evidence #2** | * A second piece of evidence to support my claim is \_\_\_\_\_\_\_\_ from the \_\_\_\_\_\_\_ activity * Another piece of evidence from the \_\_\_\_\_ activity is \_\_\_\_\_\_\_\_\_. * Additionally, \_\_\_\_\_\_\_ * From the \_\_\_\_\_\_ activity, evidence to support my claim is \_\_\_\_\_\_\_\_\_\_\_\_ |
| **Evidence #3** | * Furthermore…. * Another piece of evidence is... * Additional evidence states that… * From the \_\_\_\_\_\_ activity, evidence to support my claim is \_\_\_\_\_\_\_\_\_\_\_\_ * A third piece of evidence to support my claim is \_\_\_\_\_ from the \_\_\_\_\_\_ activity |
| **Reasoning #1**  *(How does your evidence #1 support your claim?)* | * Evidence that \_\_\_\_\_\_\_\_\_\_\_\_\_\_ is important because \_\_\_\_\_\_\_. * This shows that \_\_\_\_\_\_\_\_\_\_\_\_\_. * This evidence suggests that \_\_\_\_\_\_. * If \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, then \_\_\_\_\_\_\_\_\_ * This proves \_\_\_\_\_\_\_\_ because \_\_\_\_ * This supports my claim because… * This confirms that\_\_\_\_\_\_\_\_ because\_\_\_\_\_\_\_\_ |
| **Reasoning #2**  *(How does your evidence #2 support your claim?)* | * Evidence that \_\_\_\_\_\_\_\_\_\_\_\_\_\_ is important because \_\_\_\_\_\_\_. * This shows that \_\_\_\_\_\_\_\_\_\_\_\_\_. * This evidence suggests that \_\_\_\_\_\_. * If \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, then \_\_\_\_\_\_\_\_\_ * This proves \_\_\_\_\_\_\_\_ because \_\_\_\_ * This supports my claim because… * This confirms that\_\_\_\_\_\_\_\_ because\_\_\_\_\_\_\_\_ |
| **Reasoning #3 (***How does your evidence #3 support your claim* | * Evidence that \_\_\_\_\_\_\_\_\_\_\_\_\_\_ is important because \_\_\_\_\_\_\_. * This shows that \_\_\_\_\_\_\_\_\_\_\_\_\_. * This evidence suggests that \_\_\_\_\_\_. * If \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, then \_\_\_\_\_\_\_\_\_ * This proves \_\_\_\_\_\_\_\_ because \_\_\_\_ * This supports my claim because… * This confirms that\_\_\_\_\_\_\_\_ because\_\_\_\_\_\_\_\_ |
| **Conclusion**  (Restate the Claim) | * In conclusion, \_\_\_\_\_\_ * In sum, \_\_\_\_\_\_ * Therefore, \_\_\_\_\_\_\_\_\_\_\_\_ |

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**Graphic Organizer**

Provide **brief** descriptions of each topic below to help you write your final product

Claim

Reasoning #3

Evidence #3

Evidence #2

Evidence #1

Conclusion

Reasoning #2

Reasoning #1