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| --- | --- | --- | --- |
| **Component** | **Level** | | |
| **0** | **1** | **2** |
| **Claim**  A statement or conclusion that answers the question asked or the problem posed. | Does not make a claim, or makes an inaccurate claim. | Makes an accurate but incomplete claim. | Makes an accurate and complete claim. |
| **Evidence**  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 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. |
| **Reasoning**  A justification that connects the evidence to the claim. It shows *why 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 the claim. | Provides reasoning that links the claim and evidence. Repeats the evidence and/or includes some scientific principles, but not sufficient. | Provides reasoning that links evidence to claim. Includes appropriate and sufficient scientific principles. |
| **Rebuttal**  Recognizes and describes alternative explanations, and provides counter evidence and reasoning for why the alternative explanation is not appropriate. | Does not recognize that an alternative explanation exists and does not provide a rebuttal or makes an inaccurate rebuttal. | Recognizes alternative explanations and provides appropriate but insufficient counter evidence and reasoning in making a rebuttal. | Recognizes alternative explanations and provides appropriate and sufficient counter evidence and reasoning when making rebuttals. |

**Base Rubric for Claim, Evidence, Reasoning, Rebuttal (CERR)**

*Taken from Supporting Grade 5-8 Students in Constructing Explanations in Science: The Claim, Evidence, and Reasoning Framework for Talk and Writing by Katherine L. McNeill and Joseph Krajcik (2012).*