OHMMHS Claim Evidence Reasoning Rubric

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|  | ***Claim:***  ***A statement that answers the original question or problem*** | ***Evidence:***  ***Scientific data that supports the claim. The data needs to be appropriate and sufficient to support the claim*** | ***Reasoning:***  ***A justification that connects the evidence to the claim. It shows why the data counts as evidence by using appropriate and sufficient scientific principles*** | ***Citing:***  ***Follows APA format referencing information used to support research*** | ***Rebuttal:***  ***Recognizes and describes alternative explanations, and provides counter evidence and reasoning for why the alternative explanation is not appropriate*** |
| **0** | Does not make a claim | Does not provide evidence | Does not provide reasoning | No citations or resources given | Does not recognize that an alternative explanation exists and does not provide a rebuttal. |
| **1** | Makes an inaccurate claim | Provides inappropriate evidence. The evidence does not support the claim | Provides inappropriate reasoning | Has few citations, but are unreliable | Recognizes alternative explanation but makes an inaccurate rebuttal. |
| **2** | Makes an accurate claim, but the claim is incomplete | Provides appropriated, but insufficient evidence to support claim | Provides appropriate, but incomplete reasoning (Not all evidence is accounted for) | Has few citations, but are reliable | Recognizes alternative explanation and provides appropriate but insufficient counter evidence and reasoning in making a rebuttal. |
| **3** | Makes a claim that is accurate and complete | Provided appropriate and sufficient evidence to support claim | Provides reasoning that connects the evidence to the claim. Includes appropriate and sufficient scientific principles to explain why the evidence supports claim. | Has many citations that are reliable | Recognizes alternative explanation and provides appropriate and sufficient counter evidence and reasoning in making rebuttals. |

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