

Student Scientific Explanation Rubrics

Component: CLAIM		
Level	Criteria	Clarification
2	<p>Accurate Claim Has written a complete sentence that accurately answers the focus question.</p>	<ul style="list-style-type: none"> • Needs to mention all 3 states of matter • Needs to mention both light and sound
1	<p>Partial Claim Has written a complete sentence but it does not fully answer the focus question</p>	<ul style="list-style-type: none"> • Does not state a complete sentence to answer the question or doesn't completely answer the focus question • Includes additional information beyond just the claim that is accurate
0	<p>Inaccurate Claim or No Claim Does not any components of the focus question or writes nothing. Provides additional inaccurate information.</p>	<ul style="list-style-type: none"> • No mention of states of matter and/or sound and light • They did not give a claim at all.

Component: EVIDENCE		
Level	Criteria	Clarification
3	<p>Outstanding Detail Provides all 3 pieces of evidence and includes detail.</p>	<ul style="list-style-type: none"> • Needs to include the following specific data: how all 3 states of matter affects sound and light
2	<p>Some Detail Provides 2 pieces of accurate evidence and includes detail.</p>	<ul style="list-style-type: none"> • Includes 2 of the data necessary above
1	<p>Little/No Detail Provides only 1 piece of accurate evidence and includes detail.</p> <p style="text-align: center;">AND/OR</p> <p>Provides 1 or more pieces of evidence that is not detailed.</p>	<ul style="list-style-type: none"> • Includes 1 of the data necessary above
0	<p>No Evidence or Inappropriate Use of Evidence Does not provide any evidence.</p>	<ul style="list-style-type: none"> • Nothing written • Provides incorrect evidence.

Component: REASONING		
Level	Criteria	Clarification
3	Accurate and Complete Reasoning Accurately and completely answers both reasoning statements	<ul style="list-style-type: none"> Needs to answer both prompts Needs to answer both with scientific accuracy based on the class discussion
2	Complete Reasoning Answers both reasoning statements but not accurately AND/OR Answers one statement and it is accurate	<ul style="list-style-type: none"> Needs to answer both with little accuracy Needs to answer at least one with complete accuracy
1	Partial Reasoning Only answers one reasoning statement and it is inaccurate as well	<ul style="list-style-type: none"> Needs to answer one with little accuracy
0	No Reasoning/ Inaccurate Reasoning/Incomplete Reasoning Merely restates the evidence	<ul style="list-style-type: none"> Nothing written Just provides more evidence.