

# DATA *Nugget* Grading Rubric

Criteria	1	2	3	4	#
<b>Hypothesis</b>	No attempt made to underline text.	Incorrect sentence underlined AND none of the hypothesis.	Correctly found and underlined part of the hypothesis. May have underlined additional text, such as predictions.	Correctly found and underlined the entire hypothesis and did not underline predictions.	
<b>Scientific Data and Graphing</b>					
<b>Variables</b>	No attempt to identify independent and dependent variables.	Neither variable identified is correct.	Only one variable is correct, OR only one of the multiple correct variables listed, OR extra, unnecessary variables are listed.	Both independent and dependent variables correctly and clearly identified, AND multiple variables or categories listed, <i>if appropriate</i> .	
<b>Graph</b> (Levels B and C only. In Level A, the graph is provided.)	No attempt to graph, OR graph is missing five or more graph components from list under score 4.	Chose incorrect type of graph, OR chose correct type, AND missing three or four graph components from list under score 4.	Chose correct type of graph, AND missing one or two components from list under score 4.	Chose correct type of graph, AND includes all of the appropriate components below: <ul style="list-style-type: none"> <li><input type="checkbox"/> One or both axes labeled correctly</li> <li><input type="checkbox"/> Units included with axes labels, <i>when applicable</i></li> <li><input type="checkbox"/> Scale on both axes is correct</li> <li><input type="checkbox"/> Means or data points graphed correctly</li> <li><input type="checkbox"/> Includes key/legend to differentiate variables or categories on graph, <i>when applicable</i></li> <li><input type="checkbox"/> Trend line or error bars are included and drawn correctly, <i>when applicable and required by teacher</i></li> <li><input type="checkbox"/> Title included, <i>if required by teacher</i></li> </ul>	
<b>Interpret the Data - Constructing Explanations</b>					
<b>Claim</b>	No claim written OR claim is missing four of the criteria listed under score 4.	Claim is missing two or three of the criteria listed under score 4.	Claim is missing one of the criteria listed under score 4.	Claim meets all of the following criteria: <ul style="list-style-type: none"> <li><input type="checkbox"/> Correctly answers question (based on graph)</li> <li><input type="checkbox"/> Mentions relevant variables</li> <li><input type="checkbox"/> Does not include extra information (such as evidence)</li> <li><input type="checkbox"/> Clearly stated as a complete sentence</li> </ul>	

# DATA *Nugget* Grading Rubric

Criteria	1	2	3	4	#
<b>Evidence</b>	Provides no evidence to support claim, OR evidence is missing four to five of the criteria under score 4.	Evidence is missing two or three of the criteria listed under score 4.	Evidence is missing one of the criteria listed under score 4.	Evidence meets all of the following criteria: <ul style="list-style-type: none"> <li><input type="checkbox"/> Provides necessary and appropriate evidence to support the claim</li> <li><input type="checkbox"/> Does not include extra evidence</li> <li><input type="checkbox"/> Mentions a comparison, trend in the data, or relationship between the variables</li> <li><input type="checkbox"/> References specific data OR refers back to table/graph</li> <li><input type="checkbox"/> Clearly stated using complete sentences</li> </ul>	
<b>Reasoning</b>	Does not provide reasoning, OR only provides inappropriate reasoning.	Reasoning is missing both of the criteria listed under score 4.	Reasoning is missing one of the criteria listed under score 4.	Reasoning includes both components below: <ul style="list-style-type: none"> <li><input type="checkbox"/> Explains why the evidence supports that claim</li> <li><input type="checkbox"/> Identifies underlying science concepts</li> </ul>	
<b>Your Next Steps as a Scientist</b>					
<b>Future Questions</b>	Did not attempt to identify future questions to be investigated, OR is missing four to five of the criteria under score 4.	Identified at least one question, BUT it is missing two to three of the criteria listed under score 4.	Identified at least one question, BUT it is missing one of the criteria listed under score 4.	Identified one or more questions that meet all of the following criteria: <ul style="list-style-type: none"> <li><input type="checkbox"/> Phrased as a question (not a prediction)</li> <li><input type="checkbox"/> Can be addressed with research</li> <li><input type="checkbox"/> Related to relevant science concepts</li> <li><input type="checkbox"/> Can not be answered with yes/no</li> <li><input type="checkbox"/> Clearly stated using complete sentences</li> </ul>	