

Eutrophication Lab Rubric

Name: _____

Criteria	Extending	Proficient	Developing	Emerging
Questioning and Predicting <i>Purpose & Hypothesis</i>	<p>The reason for doing this lab is described with <i>detail</i></p> <p>Develops an <i>insightful</i> hypothesis using cause and effect reasoning</p>	<p>The reason for doing this lab is <i>logically</i> described</p> <p>Develops a <i>focused</i> hypothesis using cause and effect reasoning</p>	<p>The reason for doing this lab is described <i>at a basic level</i></p> <p>Develops a <i>predictable</i> hypothesis using <i>limited</i> cause and effect reasoning</p>	<p>The reason for doing this lab is <i>vague</i></p> <p><i>Irrelevant</i> hypothesis with no cause-and-effect reasoning</p>
<i>Rough Data & Observations</i>	<p><i>Skillfully</i> makes and records accurate and precise observations</p> <p>Organizes data and observations to <i>purposefully</i> enhance understanding and clarity</p> <p>Details that might affect the data and conclusions are noted</p>	<p><i>Effectively</i> makes and records observations</p> <p><i>Systematically</i> organizes data and observation</p> <p>Attempts are made to note details that might affect the data and conclusions</p>	<p>Makes and records <i>appropriate</i> observations</p> <p>Organizes data and observations <i>simplistically</i></p>	<p>Makes and records <i>ineffective</i> observations</p> <p><i>Disorganized</i> data and observations</p>
Processing & Analyzing Data & Information <i>Results & Summary</i>	<p>Draws <i>compelling</i> conclusions consistent with data using data and calculations as evidence</p>	<p>Draws <i>meaningful</i> conclusions consistent with data using data and calculations as evidence</p>	<p>Draws <i>obvious</i> conclusions consistent with data, <i>lacks evidence</i></p>	<p>Draws <i>trivial</i> conclusions inconsistent with data, <i>no evidence used</i></p>



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This material is available to reuse and adapt in your classroom.



Criteria	Extending	Proficient	Developing	Emerging
Evaluating <i>Discussion</i> - Results - Sources of Error - Improvements	<i>Efficiently</i> summarizes and analyzes the main findings of the experiment using data, trends, and calculations as evidence <i>Skillfully</i> evaluates experiment method and conditions for validity: sources of error and their impact on data and findings are discussed using cause and effect reasoning Makes <i>significant</i> suggestions for future changes and adaptations for improvement or future work based on the findings in the experiment using cause and effect reasoning	<i>Effectively</i> summarizes the main findings of the experiment using data, trends, and calculations as evidence <i>Systematically</i> evaluates experiment method and conditions for validity: sources of error and their impact on data and findings are discussed using cause and effect reasoning. Makes <i>relevant</i> suggestions for future changes and adaptations for improvement or future work based on the findings in the experiment using cause and effect reasoning	<i>A workable</i> summary of the main findings of the experiment, evidence is lacking <i>Simplistic</i> evaluation experiment method for sources of error attempting to use cause-and-effect reasoning Makes <i>predictable</i> suggestions for future changes and adaptations attempting to use cause and effect reasoning	<i>Ineffectively</i> summarizes the main findings of the experiment <i>Ineffectively</i> evaluates experiment method and conditions for validity Makes <i>unrelated</i> suggestions for future changes and adaptations for improvement or future work
Communication & Presentation <i>Cognitive task through entire lab report</i>	<i>Skillfully</i> communicates scientific ideas, claims, and information using scientific language and conventions Constructs evidence-based arguments using cause and effect reasoning “if..., then...because” <i>Persuasive</i> data and findings within the lab used as evidence	<i>Effectively</i> communicates scientific ideas, claims, and information using scientific language and conventions. Constructs evidence-based arguments using cause and effect reasoning “if..., then...” <i>Credible</i> data and findings within the lab used as evidence	<i>Appropriately</i> communicates scientific ideas, claims, and information using scientific language and conventions. Constructs <i>simplistic</i> Arguments and <i>attempts</i> to use data and findings within the lab used as evidence	<i>Ineffective</i> communicates scientific ideas, claims, and information using Inappropriate scientific language and conventions. <i>Unsupported</i> evidence-based arguments

Feedback: