

Stream Table Experiments Scoring Guide

	Hypothesis	Procedure	Data	Conclusion	Scientific Merit
4	<p>Background information is present and clearly explained</p> <p>Prediction is present and clearly written in a way that is testable</p> <p>Background information is connected to the prediction and is relevant</p>	<p>Enough details are present that the procedure could be followed</p> <p>Controls and variables are accounted for</p> <p>Provides a way to gather appropriate data for their hypothesis</p>	<p>Organized and easy to read (units present, sketches or data tables labeled)</p> <p>Consistent with the procedure</p> <p>Explained with graphs, or a brief paragraph of observations</p> <p>Enough data will be generated to answer the question</p>	<p>Says what happened in the experiment and offers a reasonable explanation for their results</p> <p>Data is explicitly used to help support their conclusion</p> <p>Sources of error and limitations are discussed</p> <p>Related back to hypothesis in an effort to draw a conclusion</p>	<p>Presents interesting/unique question to answer</p> <p>Well controlled, no logical gaps in procedure</p> <p>Conclusion evaluates the ultimate meaning of the results</p>
3	<p>Background information is present and understandable but is unrelated to the experiment</p> <p>Prediction is present and understandable but does not suggest a way to test it by gathering data</p>	<p>Can generally be followed with a few details missing</p> <p>Doesn't take into account some of the controls of the experiment</p> <p>Allows you to gather data but not specific about the type and amount, or data not appropriate for hypothesis</p>	<p>Data is somewhat unclear (no units, no labels)</p> <p>Data is somewhat consistent with procedure</p> <p>Incomplete explanation of data (graph inappropriate, no observations to go with sketches)</p>	<p>Says what happened in the experiment but explanation is unclear</p> <p>Doesn't explicitly use data to support what they have said</p> <p>Sources of error and limitations are incomplete</p> <p>Conclusion is related back to hypothesis, but is confusing</p>	<p>Good question, but not really original</p> <p>Procedure good, but there are obvious details that could have been pursued</p> <p>Analyzes data, but not thoroughly</p>
2	<p>Some background information but is unclear or scientifically incorrect</p> <p>Prediction is unclear</p>	<p>Procedure can't be followed as written</p> <p>Controls are not specified, or variable is missing</p> <p>Type and amount of data not specified and it is not appropriate to the hypothesis</p>	<p>Data is messy and unclear</p> <p>Data doesn't match procedure</p> <p>No explanation of data is given</p>	<p>Says what happened in the experiment but explanation is missing or significantly incorrect</p> <p>Sources of error are confusing and incorrect</p> <p>The relation to the hypothesis is incorrect</p>	<p>Question not original or interesting</p> <p>Procedure very basic</p> <p>Doesn't think carefully about meaning</p>
1	<p>No background information or no prediction present</p>	<p>Gives a general plan but no real procedure</p> <p>Doesn't provide way to gather data</p>	<p>Data is unclear, messy and inappropriate for the experiment</p>	<p>Doesn't say what happened or offer an explanation</p> <p>Sources of error/limitations not discussed</p> <p>No connection is made to hypothesis</p>	<p>Scientifically not well constrained</p>

Grade: Student Name: _____ Total points for written report: ____/16