

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Period: \_\_\_\_\_

**Conclusion Rubric: Topic Title:** \_\_\_\_\_

The discussion is based on your actual results, whether they were expected or not. A graph is often produced to show trends. This section explains the significance of your results. Were they what you predicted? Why or why not? How do your results relate to the “because” portion of your hypothesis?

Quick List of what to include in writing portion: (WELL Written Conclusion)

1. Purpose of experiment
2. Brief summary of experiment
3. Data Analysis- pointing to significant data, comparing independent variables, percentages, ratio statistics
4. Support of hypothesis?
5. Sources of error
6. What was learned?
7. Additional questions generated

Explanation

A) Do NOT simply re-write your results.

B) This section is where you are to EXPLAIN YOUR RESULTS and what they mean. You should develop inferences based both on your experimental observations and on your prior knowledge of the topic. Your inferences must logically follow and be supported by your results. Discuss trends observed throughout your experiment.

C) Explain why certain data was important and decide if and how the data supported your hypothesis. Did experimental results support the hypothesis you generated?

D) Talk about significant results, and explain how your data fits into the body of knowledge on the topic.

E) Discuss any weaknesses/problems in the experimental design. Identify sources of error. Include suggestions for improvement and design changes to remedy errors or weakness in the design.

Criteria/Element	Exceeds	Meets	Progressing	Comments
Data Analysis/ Graph (if required)	Included professional looking graph, pointed at significant data to make proper and clear conclusion	Graph included (if required). Data was used as evidence.	Missing elements leaving conclusion unsupported	
Hypothesis support	Evidence of data stated to support/not support hypothesis. Hypothesis clearly restated	Evidence used to support/not support hypothesis though hypothesis may or may not have been restated	Missing element for hypothesis support.	
Sources of error	Shows great thought about sources of error and errors are clearly stated and explained throughout. Improvements to experimental design added	Some obvious sources of error given and are stated within conclusion	One possible source of error listed or missing the element	
What was learned	What was learned is clearly identified and further questions added	What was learned is identified	Attempts to state what was learned	