

Student: _____ Class: _____

Science Experiment Rubric

Date: _____

Required Elements	Points
Research Question: Student includes a question that explains what was studied.	1 0
Hypothesis: Student includes a prediction of what might occur in the experiment and an explanation of their reasoning.	1 0
Independent Variable: Student describes the single factor they changed.	1 0
Dependent Variable: Student identifies what they measured.	1 0
Materials List: Student includes a list of all of the items that were used to complete the experiment.	1 0
Procedure: Student lists steps in order of exactly what was done. They are clear enough that another scientist could replicate the experiment easily.	2 1 0
Data Collection: Student includes a data table with units and measured observations. Student shows repeated trials.	2 1 0
Graph: Student includes a mathematical representation of the data, including labels, units, titles.	2 1 0
Results: Student explains what happened in the data using mathematical language. Student includes a calculated average, if necessary.	1 0
Scientific Explanation: Student reflects upon the hypothesis to determine if the goal of the experiment was met. Student summarizes the findings and evaluates the experimental procedure. Student list possibilities for further study.	2 1 0
Communication of Results: Student orally articulates the scientific explanation, briefly, including what was learned in the process.	1 0
Responsibility: Student completes the experiment and documentation in a timely manner. Student remembers necessary materials. Student maintains cleanliness of the workstation and materials.	2 1 0
Research: Student incorporates relevant information from reliable sources or work from other scientists, and sources are listed.	1 0
Workmanship: Student works diligently, and student's work shows attention to detail.	1 0
Safety: Student meets or exceeds all expectations for working safely in the lab.	1 0
Total	/20