

Assignment #4

Keep careful, written records of your measurements and observations in your data log every day you are working on your experiment. Be sure to take pictures or draw observations as you go!

	50	40	30	0
Science Fair Data Collection	The student completed the experiment by the deadline and has proof (pictures, model, video) recorded as evidence.	The student completed the experiment by the deadline but has no proof (pictures, model, video) recorded as evidence.	The student completed the experiment after the deadline and has (pictures, model, video) recorded as evidence.	The student did not complete the experiment.
Science Fair Data Organization	The student recorded his/her observations in an organized and legible manner. The data can be clearly understood and is sufficient to complete data analysis	The student recorded his/her observations but it is not organized and/or legible. The data can be somewhat understood in order to complete data analysis.	The student recorded very little of his/her observations. The data can be somewhat understood in but is not enough to complete data analysis.	The student did not record any data collected from their experiment.

Assignment #5

Analysis: After you finish your three (minimum) trials of the experiment, analyze your data and begin looking for trends or patterns. You will need to include a **graph with averages** of your measurements or a description of qualitative observations. Write a summary of your data including comparisons and inferences.

Conclusion: Compare your information with what your research showed. Draw **conclusions by citing specific evidence**. Be sure to include any **possible errors** in your conclusion. Use the Conclusion format to analyze and compare data in a clear manner.

	50	40	30	20
Science Fair Analysis	Data is graphed and summarized. Trends are clearly highlighted.	Data is graphed but not summarized. Trends are clearly highlighted.	Data is graphed incorrectly. Trends are inaccurate or not highlighted.	Data is not analyzed through the use of a graph or summary. Trends are not highlighted.
Science Fair Conclusion	Student provided a detailed conclusion clearly based on the data and related to previous research findings and the hypothesis statement(s).	Student provided a somewhat detailed conclusion clearly based on the data and related to the hypothesis statement(s).	Student provided a conclusion with some reference to the data and the hypothesis statement(s).	No conclusion was apparent OR important details were overlooked.

Assignment #6

Double check your Research Log to ensure that ALL parts of the project are clearly documented with dates.

Test Grade	100	75	50	0
Science Fair Log	All steps of the Scientific Inquiry Process were recorded (Question/Problem, Hypothesis, Procedures & Materials, Experiment Data, Observations, Conclusion) in an organized manner that is easy to follow and read.	All steps of the Scientific Inquiry Process was recorded (Question/Problem, Hypothesis, Procedures & Materials, Experiment Data, Observations, Conclusion) but it is not organized or easy to follow and read.	Most steps of the Scientific Inquiry Process was recorded (Question/Problem, Hypothesis, Procedures & Materials, Experiment Data, Observations, Conclusion) AND/OR it is not organized or easy to follow and read.	The log was not submitted OR important details were not included.