

## Lab Report Guidelines

### General Lab Format:

- All writing must be in complete sentences.
- Do not use personal pronouns
- Check for spelling and grammar errors!
- Honors classes: MUST submit work via Google

### Lab Reports should include the following:

Name, class period, date: Include your first and last name, period number, and date you did the lab AT THE TOP RIGHT of your paper (digital or actual paper)

Title: Include in bold and centered

### Purpose/Question:

- What is the overall goal of this lab? What does the lab try to determine or accomplish?

### Hypothesis:

- The hypothesis should be a testable, statement. Should be clear and concise and address the purpose or goal of the lab. (this is not always present)

### Variables:

- List the independent and dependent variables.
- Control and constants stated

### Materials list :

- Bulleted list of materials used

### Procedure:

- Number the steps required to complete the lab. By using the steps in your procedure, the lab can be repeated and generate the same (or similar) results.

### Results:

- Record qualitative and quantitative observations made during the lab. Use this data in calculations and analysis to examine the hypothesis and generate a conclusion.
- Quantitative data should be placed in a table
- If appropriate, create a graph which includes all proper labels

### Conclusion: (this should be in paragraph form, do not bullet or number)

- Conclusion statement that states the relationship between variables.
- Discuss results in detail and make specific references to evidence for conclusion. Every statement needs to be supported with evidence from the lab.
- Discuss why the results observed occurred including discussion of any specific processes. If outside resources are used, site at the end of the lab.
- Comment on whether or not you met the purpose of the activity or if the results support or refute the hypothesis. (make sure to restate hypothesis)
- Describe at least one source of error introduced during the procedure and suggest one improvement

\*\*\*See Grading Rubric on next page\*\*\*

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

**New West Charter School Science Lab Rubric****Experimental Design - Objective, Hypothesis, Variables, and Scientific Writing**

Does not meet criteria	Partially meets criteria	Meets criteria	Specific Expectations
0	1	2	The purpose or objective of the lab is clearly stated and supported by background research when applicable.
0	1	2	Hypothesis stated in one sentence with a clear statement of cause and effect.
0	1	2	Independent variables, dependent variables, and constants are correctly identified. Controls, if applicable, are correctly stated.
0	1	2	All writing is written in scientific expository style with precise, specific language.

**Results: Data and Graphing**

Does not meet criteria	Partially meets criteria	Meets criteria	Specific Expectations
0	1	2	Data is accurately collected in data tables and all data include proper labels and units.
0	1	2	Graph has title that includes independent and dependent variable
0	1	2	X and Y axis labeled with title and units Variables are located on correct axis
0	1	2	Data accurately presented in graph. Key included if necessary
0	1	2	Scale on axis is applicable to range of values in data

**Conclusion**

Does not meet criteria	Partially meets criteria	Meets criteria	Specific Expectations
0	1	2	Conclusion statements state the relationship of variables.
0	1	2	Conclusion statements are supported by evidence from data gathered in the lab.
0	1	2	Discuss why the results observed occurred including discussion of any specific processes. If outside resources are used, cite at the end of the lab.
0	1	2	Purpose and hypothesis (if applicable) reevaluated with reference to the data supporting (or refuting).
0	1	2	Statements addressing areas of <u>improvement</u> or future experimentation are included.

Total: \_\_\_\_ / 28