

LAB REPORT TEMPLATE

Name:	Your name	Date:	Date of Exp.	Period:	Class
Lab Partner(s):	Name of Partner(s), if none then write 0 or No Partners				
Lab Experiment Name:	Title of experiment given by instructor or on pre-lab sheets				

Problem:

Introduce the problem in the form of a question about the problem that is not a “yes” or “no” type question or has multiple choices. It should be more like a “how” question – how will [change in independent variable] affect [change in the dependent variable]

Hypothesis:

Predict the outcome of the experiment, must be in an “if...then...because” format. You’re explaining a possible cause and effect relationship with a rationale. Example: **“If I (do this to the independent variable) then (it will affect the dependent variable in this manner) because...”** You should be able to test it and it should also have a chance to fail.

Materials:

(What equipment and materials did you need for this lab assignment? Describe how any equipment was connected. Also mention any special hardware or connections. List the name and amount of each item used.)

- # / size item	- # / size item
- # / size item	- # / size item
- # / size item	- # / size item
etc.	etc.

Procedures: What steps did you take to accomplish this lab assignment? How did you design your experiment? What are your independent, dependent, and controlled variables? How are you testing your independent variable? Write the procedure as a list of numbered steps.

- 1- ...
- 2- ...
- 3- ...

etc.

Data / Observations:

Record the data that is required at each step of the lab. A data table is always required. Making graphs and equations depend on the lab. Qualitative observations are required (using your senses). Quantitative data is required for measurements.

Analysis:

What did you learn? Explain your data / number in words. Discuss what happened in the lab. What relationship(s) did you see with the variables? Give details on anything that went wrong. Discussion questions arisen from pre-lab discussion also make for good analysis. What improvements or changes can be made to this experiment?)

Conclusion:

What conclusions can you draw from the results of this lab assignment – did it support your hypothesis or support a different one? Was it inconclusive – didn’t support on or another? Compare the results of the experiment with your hypothesis.)

Final Note:

Lab reports are often 2 to 5 pages; sometimes more. The more detail you can put into your procedures, data, and analyses, the better your grade will be (in general).