

Title of Lab

Your name, lab partners, or lab group

Period

Date

A. Purpose:

This is where you put the question that you are investigating. What are you trying to determine through this experiment?

B. Hypothesis:

This is where you put what you thought could have been the result of your experiment. You need to give two reasons why you believe that is the case. (It is ok if it is different than your actual result, it is just supposed to be an educated guess!)

C. Materials:

*This is where you **list** all the materials that you used in your lab. Make sure to include ALL materials, and name them properly.*

D. Procedure:

This is where you will create a step by step procedure that can lead others through the experiment you completed. The procedure needs to be specific and in chronological order. Do not use personal pronouns & do include when to record data!

Procedures should be in either a numbered list or bulleted list, not in a paragraph.

E. Data:

This is where you will place a data table. The data table(s) needs to be labeled and needs to include all the data you collected in your experiment. You must include units with your data. You may have multiple data tables each unique to a sample. Make sure all data is recorded to the correct number of significant figures using correct measuring skills.

Heading One	Heading Two (x)

F. Calculations:

You may either hand write or type all calculations you did for your lab. Show all of your work!
Label calculations.

G. Results Table:

Table identifying ALL unknowns & HOW you know what it was (Data to prove your claim). This is where you would put the results to your calculations that are helpful in determining the question that you are investigating.

Heading One	Heading Two	Heading Three

H. Conclusion ****Most Important Section****

A conclusion must be a well thought out paragraph. It needs to include:

- restated purpose
- restated hypothesis
- whether your hypothesis was correct or not and what data you have to prove this.
 - this should be the largest chunk of your paragraph because this is where you are stating your actual result and talking about the data you collected to get there
- Percent error
 - In a sentence state your percent error that you showed your work for in the calculations section. Below is the formula for percent error: measured being the one you found in your experiment, and accepted being the one you found through a data table/resource

$$\% \text{ Error} = \left| \frac{\text{measured} - \text{accepted}}{\text{accepted}} \right| \times 100$$

- Two sources of error
 - sources of error are NOT human error, so a poor example would be "I measured wrong or calculated wrong"
 - sources of error are errors that happened in the experiment that might have led to your data not being as accurate as it could have been.