



Writing a Lab Report (Chemistry)

The process of writing a lab report can be daunting, especially when you're enrolled in multiple labs per week. Never fear, though! This resource will allow the task to come as a second nature! In the words of Julie Andrews, a very good place to start would be the beginning.

If you happen to be a STEM major, chances are you will have to become familiar with writing a lab report. **Lab reports are a way of documenting and interpreting the data you collect throughout your experiment.** Be aware that biology and chemistry lab reports will have slight differences, depending on your instructor's preferences. Your lab report should begin with the experiment number, title of study, name(s) of the authors, course number, and lab section. It should be centered at the top of the first page.

Title + Three Sections:

Title

Introduction

Procedure

Results/Discussion

Experiment 09
 Rubber Stopper Analysis
 Lewis Student
 Partner: Jane Doe
 Lab Section 00-011-0

Introduction
 Measurement is a key tool in science. It allows for the determination of differences between parameters such as mass, volume, temperature and pressure. These differences can be significant and reveal important trends. During the course of this experiment several parameters associated with five rubber stoppers will be measured. These parameters include: mass, volume, top diameter, bottom diameter and height. The data will be presented in the form of two graphs. The first graph will show the relationship between volume and mass and the second graph will show the relationship between the stopper dimensions (top diameter, bottom diameter and height) and mass. The straight line equation, $y = mx + b$, will be shown for each trend.

Procedure
 Five stoppers, labeled 00, 2, 5, 7 and 9, were obtained. The mass of each stopper was measured using an analytical balance. A ruler was used to measure the top diameter, bottom diameter and height of each stopper. Lastly, the volume of each stopper was obtained using several different graduated cylinders and water displacement.

Results and Discussion
 The results obtained in this experiment are summarized in the table below:

Stopper	Mass (g)	Volume (mL)	Top Diameter (cm)	Bottom Diameter (cm)	Height (cm)
00	4.471	1.25	1.25	1.25	1.25
2	4.471	1.25	1.25	1.25	1.25
5	44.204	11.0	1.25	1.25	1.25
7	26.123	26.0	1.25	1.25	1.25
9	36.175	36.0	1.25	1.25	1.25

This data is presented graphically in the figures below.

Fig. 1. Stoppers: Volume vs. Mass

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Clifford Lane



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