

How to Write Biology Lab Reports

"The science laboratory...is where humanity grows greater, stronger & better." --
Microbiologist Louis Pasteur

In some labs we observe nature; in others, we investigate cause-and-effect relationships. To look for cause-and-effect, we do an experiment. In an experiment, the **independent variable [IDV]** is the variable we manipulate (the "cause"). The **dependent variable [DV]** in the experiment is the variable we measure to see if it responds ("the effect").

Before a lab...PRE-LAB! ALL PRE-LABS ARE TYPED!!

Complete a **TYPED "Pre-Lab"**. Your pre-lab is what you use to perform the lab. It generally has 6 parts:

- Title** of the lab. BE SPECIFIC and keep it simple "The Effect of [IDV] on [DV]".
- Research Question:** State precisely and clearly what it is that you will investigate by doing the lab. If doing an experiment, ask "What is the effect of [IDV] on [DV]?" For observation labs, just ask the question naturally.
- Hypothesis & Explanation:** For experiments, propose a relationship between the DV and the IDV & make a prediction about that relationship. Then explain the rationale for your idea by CITING A SOURCE FROM A REPUTABLE WEBSITE!!!. Example: "IF [gas mileage] is related to [tire pressure] AND [for the next month the car's tires will be properly inflated], THEN [the overall gas mileage will increase]. "According to an article in AAA Colorado magazine (PROPERLY CITE!!) about fuel economy..."
- Variables Table:** Good experimental design requires the control of variables that may affect the outcome of your experiment. Create and fill out a table such as this: (each experiment has its own number of relevant variables!)

Relevant Variables	Why Variables Might Affect the Outcome of the Experiment	How Your Method Allows for the Control of (Holds Constant) the Relevant Variables
X		
Y		
Z		

- Methods/Procedures:** List materials needed for the experiment. BE EXPLICIT and BE SPECIFIC about materials required; precise sizes, precise amounts needed, etc.... List directions into a numbered sequence of clear steps that show what actions to take and the order in which to take them. Identify procedural wait time (if any), and include steps that can be initiated while waiting. Someone should be able to replicate your experiment without any questions about your procedures and materials used!
- Data Collection:** Construct one or more **TYPED**, neat, ready-to-use tables for quantitative data (data in the form of numbers). Remember to follow conventional rules when making tables. Data can also be qualitative, such as a color change in a test tube or the reaction of a cell under the microscope. You'll sketch that type of data.

✓ Your pre-lab will be **checked** before we do the lab. Only well-prepared students with **complete pre-labs** earn the opportunity to work in the laboratory; all others will be excluded from the lab to perform classroom service.

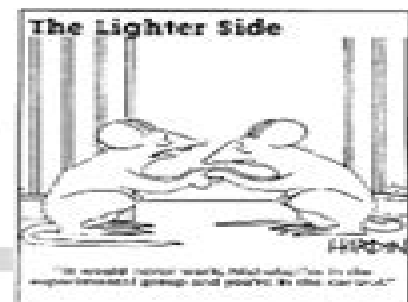
During a lab...

Make the observations and/or perform the experiment. Record your data in the table you made. If you change anything (on purpose or accidentally!), make a note of it. The ability to work cooperatively and safely may also be assessed.

After a lab...

Complete the lab report by adding the **final three necessary components**:

- Data Processing & Presentation (MUST BE COMPUTER-GENERATED):** Transform, analyze, and present the data in a new way to effectively communicate what you discovered. Should you average data? Draw a line of best fit on a graph? Either way, if calculations are performed, **show sample calculations!** Now construct a graph with it (bar, line, or pie, as appropriate). **DO NOT GRAPH RAW DATA (UNPROCESSED DATA)!!**
- Conclusion:** Assume the reader is a science-minded, well-educated layperson. **Conclusions have four parts:**
 - Restatement** of the question and hypothesis.
 - Accurate summary of the results** from the lab. Tell us what happened using **actual data** from your experiment in your account. **This should be a good paragraph or two.**
 - Interpretation of the results** — your judgment as to whether the data do or do not support the hypothesis. Identification of at least **three relevant sources of inaccuracy** (limitations, weaknesses, or errors) and how they may have affected your data. How was the design fundamentally flawed? **Don't just use HUMAN ERROR!**
 - Summary statement about the validity of your conclusions based on your analysis.



How To Write A Microbiology Lab Report

M Carnoy



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