

Laboratory Notebook Guidelines

The main purpose of your laboratory notebook is to be a permanent record of your experiments. During an experiment, you will use it to record data and observations necessary to complete lab reports that explain your results. But, an additional benefit is that using a lab notebook will help you prepare for upcoming experiments, which in turn will help you be more efficient, organized, confident, and safe in the laboratory.

General Guidelines

- 1) **Always use pen.** Notebook entries need to be in permanent ink, never pencil. One rationale behind this is that scientists should always report the data that they observe and never falsify or modify data.
- 2) **Record data on the right side of each page.** This leaves the left side of each page available as scratch paper, for quick notes, or for unexpected recordings on the day of the experiment.
- 3) **Write down everything immediately.** Record all data, including measurements and observations, as they happen in lab. A common mistake is to think that you will remember things to write down later. Always include units with measurements and record values with the proper number of significant figures according to the precision of the device.
- 4) **Be complete, yet concise, and write clearly.** Your notebook is a permanent record of your experiments for yourself, but a huge part of science is the confirmation of results via the replication of experiments by other scientists, so you should also think of your notebook as a guide for someone else that wants to perform the experiment. It should contain everything they would need to repeat what you have done and they need to be able to read it to do that. It is possible to write too much though, so try to be concise.
- 5) **Strikethrough mistakes.** If you make a mistake when writing something, strikethrough the erroneous entry by drawing a line through it. Then, write your correction next to the strikethrough. This applies to single words or even large sections that need to be corrected. The original entry should still be legible behind the strikethrough. Do not use white out and never erase anything.

Initial Set Up

- 1) **Use a bound notebook.** Select any notebook that has pages that are permanently attached (bound) to the spine; notebooks with perforations that allow for pages to be torn out are not acceptable. Never remove pages from your notebook. Composition books are an inexpensive, but good option. Notebooks with gridlines help make tables and graphs look neat and organized.
- 2) **Write your name, course, and section on the front cover.** Optional: include contact information on the inside of the front cover in case you lose your lab notebook. This also a great place to record contact information for your lab partner(s).
- 3) **Number all of the pages.** Both the front and back sides of each page need to be numbered. The outside corners are a convenient location.
- 4) **Create a Table of Contents on the first page.** Leave a few pages blank for future entries to the table of contents. Include columns for the date of experiment, experiment title and/or experiment number, and the page number(s). Fill in the information when you do an experiment to keep it up to date.

Pkgacp Chemistry Lab Experiments Chem 161

Karen E. Kowulka



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