

Guide to Formal Chemistry Lab Reports

Title of Lab

Name: _____

Block: _____

Date: _____

Objectives (Hypothesis):

Write out the objectives found at the front of the lab in your lab book *"Essential Experiments for Chemistry"*.

If the lab is one of your own design then you must predict the outcome of your experiment in a hypothesis statement.

For example "I predict that heating the reaction vessel will increase the production of CO₂ due to an increase in the reaction rate."

Procedure:

Rather than copy out the entire procedure, simply refer to the page numbers in your lab book. For example: "Essential Experiments for Chemistry p. 46 Steps 1 – 9.

If it is a self-designed lab then all your procedures must carefully written so that another student can follow them. Be careful to include quantities and sizes of beakers etc. For Example: "Place 25 mL of water into a 250 mL beaker" NOT "Fill a beaker with some water."

Experimental Results:

Include results in clear, labelled data tables; write observations neatly and in full sentences. If using a prepared lab then just copy those data tables out. If using a self-designed lab then include your own neat data tables. ALL data table must be labelled with a title of what you are recording and include units!

Analysis of Results:

As describe in Essential Experiments for Chemistry if using a prepared lab. If it is a self-designed lab then sample Calculations and graphs would be placed here.

Follow-Up Questions

As describe in Essential Experiments for Chemistry if using a prepared lab. Self-designed labs will NOT have these questions

Conclusion:

As describe in Essential Experiments for Chemistry if using a prepared lab. In a self-designed lab then a short discussion of whether your hypothesis is true or false. Be sure to state your reasons for accepting or rejecting your hypothesis.

Note:

Labs are given from 35 – 50 marks. Partial marks are award for correct set up and completion of all the criteria stated above. For example: Failure to include neat data table will lose you marks as will lack of a conclusion. All headings and sub-heading should be underlined. Word processed labs are acceptable. Copying will result in all parties involved in receiving a ZERO!

All labs are due on the date given. Late labs will be marked at 50% deduction.