

Ruben S. Ayala High School Science Department, D.Stevens, Instructor
FORMAT FOR CHEMISTRY LAB REPORTS

*** PLEASE NOTE: ALL FORMAL LAB REPORTS MUST BE TYPED or NO CREDIT WILL BE AWARDED. IF YOUR PRINTER BREAKS DOWN BRING IN YOUR DISK ...NO EXCUSES. THE FLOW CHART AND INITIAL DATA TABLE MAY BE HAND WRITTEN AND MUST BE FINISHED THE NIGHT BEFORE THE LAB IS PERFORMED. EVERYONE IS TO COMPLETE THIS PART, EVEN IF IT IS NOT YOUR TURN TO WRITE UP THE LAB. FAILURE TO COMPLETE THIS PART WILL RESULT IN THE FORFEIT OF THAT LAB, A ZERO IS HAZARDOUS TO THE HEALTH OF YOUR GRADE.

FORMAL TYPED LAB REPORT:

Title Page:

see sample lab

Calculations:

1. Show only sample calculations of each type of problem. (Other problems can be worked out on scratch paper and answers included with the Table of Results).
2. Show any graphs in this section. ALL graphs are to be done on graph paper. Only line graphs are acceptable. Title graph, X and Y axes. Show all data points. Draw smooth curves.

Table of Results:

This should show the results of your calculations. Keep this separate from the data. The table of results is an analysis of the data gained from the experiment. Labs always have results.

Discussion:

Discuss unusual observations, errors and anything else which will better your understanding of the principles involved. Obvious errors, subtle errors, and possible errors should be discussed, especially if your results are different from the expected results. How well did your partner do? Did you get the assistance you needed? Talk to me here about the lab itself.

Conclusion:

Should be a brief statement answering the problem (or purpose). Was your hypothesis correct or wrong? What did you learn from the lab experience?

Questions:

When questions after the experiment are assigned, they should be clearly labeled and placed after conclusion. State the question skip a line then answer it. Sometimes questions are mixed in with calculations, it is your job to separate them.

*******IMPORTANT INFORMATION*******

This format must be followed on ALL REPORTS. An entry must be made for each section.

FLOWCHART

(may be typed or handwritten)

Problem

Statement of problem to be solved by the experiment or statement of purpose for doing the experiment. (Usually, partly stated on your lab sheet).

Hypothesis

Possible answer to the problem.

Equipment

A brief list of equipment needed, (You may have to figure this out on your own). A diagram of lab set-up if necessary.

Steps

A detailed list of instructions that you have rewritten in your own words. This list of instructions may have more or less steps than the original list. This will take the place of the original instructions, and may be the only sheet allowed on lab day. Steps are to be boxed (see sample lab).

Data (observations and table of measurements):

Consists of 2 sections and is a record of the information gained by the experiment to help arrive at a conclusion to the problem. Data includes 1) qualitative data: observations of all kinds relevant to the experiment and 2) quantitative data: measurements and other numerical data. Do not include answers to any calculations in your data; that goes into your Table of Results. Whenever possible, data should be in tabular form.

SEE SAMPLE LAB