

**CHEMISTRY 1H LAB GUIDELINES**  
**major parts of an “informal lab” (not a lab report)**

**OBJECTIVES (given)**

**HYPOTHESIS**

- if-then statement
- something you can test and accept or reject at the end of the lab

**PROCEDURE (given)**

**DATA**

- Tables – printed or neatly drawn
- Graphs – graph paper, titled, x & y axes labeled, color key if needed
- Anecdotal logs – each entry dated, detailed description

**CALCULATIONS**, if applicable

- Examples: temperature, volume, pressure, moles, density, percent error, percent yield, etc.
- All applicable chemical formulas and equations must be correctly written.
- Show all work.
- Label all units.
- Watch sig.figs.

**ERROR ANALYSIS: list sources of error** – be specific and verify with teacher

- Instrument limitations
  - may not provide as many sig.figs. as needed
  - calibration issues
  - lag time
- Equipment malfunction
- Sampling errors
  - errors can arise from the precise conditions required to collect that sample size
- Undefined experiment
  - unclear definition or expectation of what the experiment is supposed to record
- Factor limitations
  - failure to account for relevant factors beyond what is focused upon in the lab
- Others as applicable

\*\*\* DO NOT list human error! \*\*\*

**CONCLUSION**

A brief summary of what was done, with your results and what was learned or reinforced. Was your hypothesis accepted or rejected? Explain.

**QUESTIONS**, if applicable