

## Pre-AP Formal Lab Report Requirements

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**Title of Lab**  
**Date** (lab was performed)  
**Your name, Lab partner(s) name(s)**

← This is your header! It should be at the beginning of every lab report. [5 pts]

Due date and time: \_\_\_\_\_

**Objectives (10 pts):** *In your own words*, describe the purpose of the lab. This section should be **2 – 4 sentences** in length: use complete sentences. You should answer two questions here:

- What was the goal of the lab?
- What experimental method did you use to accomplish this goal? (i.e. how did you accomplish the goal?) Be brief! Details of your procedure should only show up in the conclusion.

**Data (5 pts):** This should be in the form of a typed data table.

**Calculations (5 pts):** You do NOT need to show your actual math/calculations; however, please include the final result of each calculation (with correct units and sig figs). This should be in the form of a typed table.

**Analysis (15 pts):** Answer the analysis questions in complete sentences; number each question so they are easy to locate and **DO NOT copy the question** into your lab report before answering it! (The system will flag you for “copying” someone else’s work.)

**Error Analysis (5 pts):** Answer the analysis questions in complete sentences; number each question so they are easy to locate and **DO NOT copy the question** into your lab report before answering it! (The system will flag you for “copying” someone else’s work.)

**Conclusion (40 pts):** This section is the most important part of your lab report, and should include ALL of the following:

- Thesis statement: intro to your paragraph that reminds the reader about the goal of the lab. (Hint: if you’re stuck, you can choose to summarize your objectives here.) [3 pts]
- Brief recap of lab procedure and data collection method. (DO NOT explain how to math. Just explain lab procedures.) NOT step-by-step: summarize in 2-4 sentences. [6 pts]
- Explanation of your results. (Be specific: include data! But not all data. Summarize the highlights.) **Be sure to identify if you achieved the objectives you outlined in section 1.** [10 pts]
- Identify how your results compare to the accepted value and briefly discuss why you think that error occurred. [5 pts]
- Reflection: identify what you learned from this lab, and how it connects to pre-AP chemistry content. How was the content you learned in this unit essential for understanding the lab? [10 pts]
- Concluding statement: wrap up your conclusion! This is **different** from your reflection. Tie it back to your introductory sentence or thesis statement. [2 pts]

### **Grading Hints:**

- Include the full heading (as shown at the top).
- Label all sections (objectives, analysis, etc).
- Write the **objectives** and **conclusions** sections in complete sentences.
- Use paragraphs (aka more than one) for the **conclusion** section.
- Do not capitalize chemical names – they are NOT proper nouns (i.e. write “copper” not “Copper”).
- Use subscripts and superscripts when needed (i.e. write “Cr<sub>2</sub>O<sub>7</sub><sup>2-</sup>” not “Cr2O7 2-”)
- Do not double-space: 1.5 or 1.15 spacing!

## Helpful Sentence Starters (use if desired!)

### Objective:

- *The purpose of this lab was to...*
- *We accomplished the goal of this lab by...*

### Procedure:

- *We accomplished this goal by ...*

### Results:

- *We found that ...*
- *Our value was ... than the accepted value.*

### Error Analysis:

- *This lab error possibly occurred because ...*
- *As a result of this lab error, my final results would be different because...*

### Reflection:

- *In order to complete this lab, it was necessary to understand that ...*
- *This information was essential for understanding the lab because ...*

### Concluding Thoughts:

- *In conclusion, in this lab we ...*

## **Warning about Plagiarizing**

Just because you worked in the same lab group as someone else DOES NOT mean you are allowed to have identical (or similarly-worded) sections of your lab report. The ONLY sections that can be the same across a lab group are data/calculations tables. **YOU WILL RECEIVE A ZERO FOR YOUR LAB REPORT IF YOUR REPORT COMES UP AS A SUSPICIOUSLY HIGH MATCH WITH ANOTHER STUDENT (even if you completed the lab first).** Any work that is truly your own will show up as statistically different from all other students!