



Popcorn Chemistry Lab: Formal Lab Report Support Sheet



***WARNING:** This sheet is designed to help students avoid common mistakes and errors when writing the formal lab report for the Popcorn Chemistry Lab. You should use this in conjunction with the formal lab report packet because this does not include all parts that should be in each section!

- **Title and Heading:**

-Your group members have last names... be sure to include them!

- **Introduction: (*THIS SECTION IS A LONGER SECTION)**

-Do RESEARCH and include the information in this section with **IN-TEXT citations**... this means any information or facts you get from a resource are cited at the end of the sentence (NOT the end of the paragraph) that uses this information using MLA format as follows:

- Example (Web, with author): Americans eat 17 billion quarts of popcorn (Smith).
- Example (Web, no author use "Title"): Americans eat 17 billion quarts of popcorn ("Popcorn").

-Topics to explore: what is popcorn, types of corn, parts / properties of popcorn, popping / transformation process, REAL WORLD physical / chemical changes, ETC. (these are just some ideas to get you started)

-IF YOU ARE GIVING LOADS OF INFORMATION WE ALREADY KNOW IN GENERAL OR FROM CLASS (OR LAB), YOU ARE DOING THIS SECTION WRONG... YOU NEED TO RESEARCH NEW INFO AND INCLUDE IT!!

-Keep track of all sources used (cite IN-TEXT) and include them in the Works Cited

- **Objective:**

-Single sentence stating the purpose (do not use mine from the lab... put it in your own words)

- **Hypothesis:**

-Single sentence in IF / THEN format... use the hypothesis for the test that was assigned to your group!

- **Materials:**

-Copy these from the lab

-Use a bulleted list that is **SINGLE spaced**... this is the only part of the lab that is spaced like this!

- **Procedure:**

-Quick version of the steps used in this lab (do not copy word for word from the lab... use your own words)

-Number each step... no paragraphs!

-No "I," "We," "You," or "Your" or words like "First," "Next," or "Finally"

-Someone with no knowledge of this lab should be able to do the lab by reading your procedure

-No pictures needed for this particular lab

-Include ALL steps even if it was one of the tests your group did not do in this lab!

- **Data:**

- Copy ALL tables from the lab with all the information... use the Table feature of your Word/Pages program
- Each table should have a **PROPER HEADING** as shown in the lab report packet... these are NOT the same headings that are given in the actual lab (example: **Table 1.** Table showing data obtained from...)
- If a table is on two different pages, you should hit "Enter" to get it all on the same page!

- **Analysis / Calculations: (*THIS SECTION IS A LONGER SECTION)**

- Explain WHY the popcorn popped or didn't pop for each of the tests in the lab, compare/contrast the different tests to each other and the control, ETC.... LOTS OF STUFF TO EXPLORE AND EXPLAIN HERE!! Do NOT just repeat what you did or what the results were... that is NOT analysis!!!
- Basic rule of the Analysis section: ALL results (data tables) you get should be ANALYZED and EXPLAINED
- Discuss possible sources of error (do not say there were none because there definitely were... math or calculation mistakes are NOT valid sources)
- Describe multiple ways to improve the lab and make it better ***INCLUDE THIS AND THE SOURCES OF ERROR IN THEIR OWN PARAGRAPH!!**
- No calculations are needed for this particular lab

- **Conclusion:**

- State the results of the lab in one sentence... this comes first in this section!
- One sentence stating that the hypothesis was supported or rejected... this comes second in this section!
- Describe what was learned from the experiment (No "I")
- Incorporate the answers (BRIEFLY) to the post-lab questions into what was learned (do not list the questions or numbers)... since you may have incorporated many of these answers into other parts of your lab report it is fine to be brief here but all answers should be included!

- **Works Cited:**

- List all sources used in **ALPHABETICAL** order
- Double spaced
- Proper MLA format
- Search Google for MLA citation examples if you need help... just be careful with citation generators!
- When citing a WEBSITE: Do not just put the word "Web" in the citation as shown in some MLA formatting sites... include the **ACTUAL ADDRESS** in its place!!

- ***General Errors to Avoid:**

- Each section should have a bolded heading except the Title section which gets a bolded title
- If JUST the section heading (no info from the section though) is at the bottom of a page, hit enter to get it on the same page
- Entire lab report is DOUBLE SPACED except the Materials list
- Use 12 pt. Times New Roman font for the whole report with 1-inch margins
- No "I," "We," "You," ETC. throughout the entire lab report!