Full Name
Class
Date

Title (Alka Seltzer Lab Link>)

Abstract: (Advanced for Extra Credit) Describe the entire experiment (Summary of Whole Event); what the purpose is, what the results were and what was concluded. (2-3 sentences or a short paragraph) Complete this LAST for extra credit in regular Biology classes.

Problem: The question you are trying to answer.

Hypothesis: (Write in present tense - what do you think will happen and why? What is the significance of this occurrence?) Something you think you will try to answer during the investigation; often described as and "If,… then" statement.

Materials: (List of everything used, may cite location of list, be sure to include chemicals.)

- ?
- ?
- ?

Procedure:

(Write in 3rd person so that someone might be able to reproduce the experiment. Leave out personal information. May be done as a picture, paraphrased or copied from lab directions; be sure to include modifications, if any.)

1. ?
2. ?
3. ?

Results: (Describe every observation made with each step. Use scientific terms and be specific. Include tables, all calculations and any deviations from the procedural changes made or reasoning for unexpected results. Drawings are helpful.) pH Lab Data Table here for Cabbage Juice Lab>

Qualitative data in words or drawings including numbers and measurements; generally involves formulas, calculations, tables and graphs. Use MS Excel to produce tables and create graphs.

Conclusion: Include the following in a paragraph form:

1. Re-state purpose
2. Re-state hypothesis and discuss whether or not it was supported or disproven
3. Discuss key data recorded briefly.
4. Explain what was learned by observations and calculations.
5. What deductions can you make? What commonalities are observed, if any?
6. Do NOT include results not mentioned previously.
7. How would you change or improve the lab next time?
8. Discuss percent yield if possible.
9. Discuss unavoidable errors.
10. What you learned or concluded, justification for conclusions, and an explanation of results.

Other helpful suggestions: Do not write the laboratory report as you would an English paper. It should not be written in an essay format. The report should be separated into different sections as described in the template. Headings may precede different sections of the report. Be sure to maintain all lab data and notes until your project/report is paid. Be very specific in recording observations and include as many details as possible. For liquids, record opacity – clear or cloudy and color. Record when any chemical reaction/s occur/s – color change, temperature change, change in phase (formation of a new gas or solid) or the reaction is irreversible.