

MISD Science Lab Report Write-up Format

The following is the format you need to follow to write your lab reports. Remember, this is your guide so, do not lose it.

Your name
Per.
Group partners (last line)

YOUR ORIGINAL TITLE:

I. PROBLEM:

The Problem is written in the form of a question (example: How....? What.....? Why...?) Be sure to include the dependent and independent variables in your answer.

II. RESEARCH:

This is a paragraph that discusses background information that relates to the lab concepts. DO NOT simply copy the introduction on your lab instruction sheet. You may select some facts to incorporate from the provided information, but overall it should be a summary of the topic in your own words. The rest of the information for your research section should come from class discussions, personal experience (if any) and notes.

III. HYPOTHESIS:

This educated guess is written in the form of a statement that starts with "If ... then..." It should attempt to answer the problem above while explaining WHY you wrote the hypothesis that you did. This statement must be written in the "if... then..." format.

IV. EXPERIMENTAL PROCEDURE:

This should be a clearly written, abbreviated paragraph in your own words of the steps you will specifically perform in the lab or experiment. In addition, it should be accurately stated so that someone can understand what was done and repeat the experiment. Finally, this must include the materials used.

V. DATA/OBSERVATIONS:

This will include all data collected in the form of the charts, tables, drawings, diagrams, and/or graphs to explain or demonstrate your observations in the lab. Be sure that your graphs, tables, figures, or diagrams are neatly, completely and properly labeled title, axes, and units. Also, if predicting or extrapolating you must use a dashed line. You may not create a graph on your computer - it must be hand drawn, until you have demonstrated a mastery of graphing skills. In addition, you should write at least 2 sentences describing your qualitative and quantitative observations and restate your independent and dependent variables, control, and constant.

VI. ANALYSIS/POST-LAB QUESTIONS:

This section contains the answers to the lab questions or statements of what was observed and recorded. Each question should be numbered and answered in complete sentences; restate the question in your answer, or write the question and then the answer.

VII. CONCLUSION:

This is a paragraph that includes the following:

- 1) what happened in the lab - did the data support or refute your hypothesis
- 2) what you learned (answer the problem as stated in I above)
- 3) what further experiments might be done to further the study
- 4) Error analysis- mention any unanswered questions or any errors that occurred during the lab

VIII. APPLICATION:

This is a paragraph on how the lab applies to what we are learning - what are the real life applications?