

Honors Biology Lab Report

Title:

Short and precise; should accurately depict experiment done.

Purpose:

Give a rational explanation as to why you are conducting the experiment

Hypothesis:

State your hypothesis. This should be an educated guess as to what you believe your investigation will show. It should include the independent variable and the dependent variable.

Material and Equipment Used

Provide a concise list of materials that are required to perform the experiment, type of plant, etc

Procedure

Give a detailed, step-by-step, description of how this experiment was conducted. Another scientist should be able to perform your lab using your method. Do not leave anything out. This is not a paragraph, but rather a numbered list.

Date collected

- *Data table (Produce a labeled table of your results, including units of measurements)*
- *Calculations – show any calculations that you used in the interpretation of your data*
- *Graphs – provide any labeled with units, suitably scaled graphs to help with the data you collected*

Data Analysis

- *Summary data trends – give an explanation of the observations, trends/links in the results (eg: how did the IV affect the DV)*
- *Explain how errors could have occurred during the experiment and what steps could be taken to minimize their effects. If necessary, provide a statistical analysis of the accuracy of your data.*

Conclusion

Briefly describe the experiment. Give a full explanation of the outcome of your experiment, noting if the purpose was fulfilled using this procedure. Was your hypothesis validated – why or why not? Explain concisely what you achieved by performing this experiment.