Title (5 Total Points)
_____/5 - Should reflect the purpose of the lab; Independent vs Dependent Variable. Cute titles can be used only in addition to the real title.

Statement of the Problem (5 Total Points)
_____/5 - Can be written as a question: What is the affect of fertilizer on plant growth? Or in a “To” statement: To study the affect of fertilizer on plant growth?

Hypothesis/Hypotheses (plural) (5 Total Points)
_____/3 - An educated guess/logical prediction written in a complete sentence
_____/2 - Stands alone as a complete thought; relates to the variable. Do NOT start your hypothesis with “I think”. The hypothesis should be written in the following format: If (Independent Variable) is (describe change), then (dependent variable) will (describe change).

Background (5 Total Points)
_____/5 - Research prior to experimentation. Two or more definitions or sentences related to the experiment. (It is not a story about how the lab came to be. It is a mini-report on the topic.)

Procedure (10 Total Points)
_____/5 - All materials and steps. Please be sure to number the steps; avoid paragraph form.
_____/5 - The directions are clear, concise, with appropriate detail. Should not use “you” and “I” (first person).

Results (30 Total Points)
_____/5 - Provide date and time of research
Table required
_____/5 - Quantitative data: times, rates, distances, numbers, etc. (Also write out any additional descriptive information that does not fit in the table.)
Graph (if required)
_____/3 - Title reflects both dependent and independent variable
_____/3 - Both axes are appropriately labeled
_____/3 - Intervals for both axes are appropriate
_____/3 - Data points are accurately plotted
_____/3 - Appearance is neat and easily readable
Sketch required
_____/5 - Qualitative data: data gained with senses, observations.

Conclusion (+40)
_____/10 - Restate original hypothesis and discuss if it was correct/incorrect. Do NOT use “I”
_____/10 - Analyze the data. What was learned from this activity? Do NOT use “I”
_____/7 - Did the lab go as planned? Any unplanned variables? Avoid “yes/no”
_____/7 - What other similar experiments can be performed by changing a variable? Is there an extension of the experiment that would provide more information?
_____/6 - How does this relate to (or could be applied to) a real life situation? Optional: What did you like or dislike about this lab? This is the only time can use “I”
Helpful Starters for Writing the Conclusion

Repeat the original hypothesis and discuss if it was correct:
- The original hypothesis stated...... It was correct.
- The original hypothesis was incorrect. It stated......, but it was......
- In the original hypothesis it was thought that......
- The original hypothesis proved to be correct. It stated that......
- The experiment tested...... The hypothesis made was....... The results showed it to be incorrect.
- In the laboratory research conducted, the hypothesis that......was....... 
- The initial hypothesis...... It was proven to be........
- The hypothesis of this experiment stated...... It was......

Analyze the data. What was learned from conducting the experiment?
- The results of the lab show that......
- The data indicates that......
- It was learned from the experiment that.....
- From this activity it was learned that......
- Results from conducting the experiment indicate......
- The lab demonstrated (or the experiment showed)......
- Through this experiment (or research) it was learned........
- What was learned from this experiment was......
- The lab showed (or proved)........
- The learning that occurred from completing this experiment was......

Did the lab go as planned? Were there any unplanned variables?
- There were no unplanned variables in the experiment. Everything went as planned.
- The lab went as planned. There were no unplanned variables.
- There was an unplanned variable. The...... An unplanned variable that occurred was......
- There was a problem that may have affected the results of the experiment. The......
- The results of the experiment may not be accurate because.......... 
- It is possible that the results were affected by........

What similar experiment could be conducted by changing a variable? Is there an extension of the experiment that could provide additional information?
- A similar experiment (or lab) would be to........
- Another experiment that could be done is......
- Additional research can be conducted on this topic. An extension would be to.........
- This experiment can be modified (or changed) to test........
- This experiment (or the results) raised a question about...... Perhaps a future experiment can test......

How does this relate to (or could be applied to) a real life situation?
- In real life......
- This applies (or relates) (or could be related) to real life because........
- The subject of the experiment (or lab) provides information that can be used in real life since......
- The knowledge (or the information gained from conducting this experiment) is useful in (or because)...