Saving Fred Lab-60 pts.

All laboratories will require a formal write up for each person. The format is printed below. Lab reports will follow this general format: however, modifications will be made for particular labs. This year, you will be allowed to type your lab reports; however, if there is original data you will need to either print the lab report and add it or scan it in. Remember that I am the audience and you must prove to me that you understood the lab and can present your results in a clear, concise manner. You may use this template to type up your lab report.

The Total Lab Write Up is Worth 60 Points

<table>
<thead>
<tr>
<th>Name:</th>
<th>Subject</th>
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<tbody>
<tr>
<td>Team Members</td>
<td>Class Period</td>
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1. Title: (1 point)
Write the official title for the lab or make one up, example: “How Animal and Plant Cells are Different”

2. Purpose: (8 points)

This is one paragraph long. It should include an introduction to the lab, the question we are trying to answer by doing the lab, and your hypothesis (what you think the result will be). Your hypothesis should be in the form of if then statement. The if part should be the independent variable and the then part should be the dependent variable. You should also identify the control for the experiment if one was used.

3. Materials: (2 point)

List the materials you used so that someone who wanted to do this lab on their own would know what items are necessary.

4. Safety Procedures: (2 point)

This is a list or a paragraph of all the safety precautions you should take during this experiment. Think in terms of those safety features that are unique to this lab. For example, be careful with these chemicals used in this lab because several of them are highly toxic.

5. Procedures: (5 points)

Make a list of the steps you used to complete the experiment. These should be clear and concise. When writing your procedures, think about what you would tell a friend if you were to describe the lab to him.
Data and Analysis: (20 points)
This is where you put all of your tables, graphs, charts etc and you explain what each is supposed to show me. This is also where you answer any questions that I may have given you. Your data should be both quantitative and qualitative when possible.

Uncertainty (Error) Analysis: (2 points)
This is a paragraph describing anything that went wrong or was messed up during the experiment. Did something break? Was something not working properly? Do your results seem skewed or inaccurate for some reason? This section should also tell me what you can do to improve these results.

Conclusion: (20 points)
This should be at least two paragraphs in length. You need to summarize and discuss the results of your lab. Then you need to review the purpose of the lab and tell me what you learned. Also, include if your hypothesis (what you thought was going to happen) was correct. Your conclusion should demonstrate what you learned and why I had you learn it.