**Data Analysis 1 - 2 paragraphs**

**Formal language – (No “I, you, my…)**

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| *What do you claim to be true?**What evidence do you have that proves this to be true? Evidence can be gathered from experimental data, observations, pictures and good resources from your research.**Note:** *A* ***claim*** *is a statement about what you observe to be happening in the experiment, such as inferences, comparisons, or patterns/trends. You can also claim that there are no observable trends or patterns.*
* *For each claim, you must give sufficient detailed* ***evidence*** *that supports it.*
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**Conclusion 3 paragraphs minimum**

**Formal language – (No “I, you, my…)**

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| 1. What did you learn from doing this experiment? Detail the scientific principles involved that help to explain the outcome of your experiment. (You already pointed out any trends, patterns, or comparisons in the Data Analysis section. Now, I want you to explain “why”.) Do your results support your hypothesis? Why or why not (use your data!)?  |
| 2. Do you think you collected enough data? Is your data accurate and precise? Is there a lot of variation in your data or is it pretty consistent? Explain the reasoning for any variation in your data. Identify at least three sources of experimental error that most likely affected the outcome of your experiment. These could be faults in your procedure, lack of precision in the measuring tools, environmental factors, etc. **Be specific.** Don’t just say “human error.” How could these sources of error have been minimized? |
| 3. Suggest ways you could improve this experiment. If you were to do an extension of this experiment next year in high school, what are some possible next steps? Any new questions that you could investigate because you did this experiment?  |