**Scientific Inquiry & the Pendulum Lab**

**Directions:**

Use this outline to complete steps 6-7 of the scientific method

Headings are in **bold** & instructions are in *italics*

**Conclusion Paragraph**

*Sentence 1: Start your paragraph with the purpose statement. (3 points)*

*Sentence 2-3: State your hypothesis. Explain your hypothesis using scientific information. (4 points)*

*In 2-3 sentences: Explain the parts of a pendulum and the vocabulary words period and oscillation (5 points)*

*In 2-3 sentences: Describe how you tested your hypothesis without using "I" (we, our is better) (5 points)*

*In 2-3 sentences: Describe whether your procedure was effective and successful. (3 points)*

*In 2-3 sentences: Summarize your results and what the results show. (4 points)*

*In 1-2 sentences: state that you proved or disproved your hypothesis. (2 points)*

*End sentence: state the relationship between the independent variable (manipulated) and the dependent variable (responding) as shown by your data. (2 points)*

*Describe means you should explain and support your statements.*

Make sure your sentences include detail about the following:

| **Conclusion Checklist** | **Did I include this part?** | |
| --- | --- | --- |
| Did you state the purpose as the first sentence? | * ~~yes~~ | * no |
| Did you include the hypothesis and reasoning? | * yes | * no |
| Did you describe the parts of a pendulum? | * yes | * no |
| Did you explain period and oscillation? | * yes | * no |
| Did you briefly describe how the hypothesis was tested? | * yes | * no |
| Did you use "I" statements? The answer should be NO | * yes | * no |
| Did you use "we" statements? The answer should be yes! | * yes | * no |
| Did you describe whether your procedure was effective and successful? | * yes | * no |
| Did you suggest how to improve the experiment? | * yes | * no |
| Did you summarize the results and what these show? | * yes | * no |
| Did you state that you proved or disproved your hypothesis? | * yes | * no |
| Did you state the relationship between the manipulated variable and the responding variable as shown by your data? | * yes | * no |