Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period \_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_

Problem Statement and Hypothesis, Diagrams

**Problem Statement:** Complete the table below to write a problem statement.

|  |
| --- |
| State the **Purpose** of this lab.  |
| Identify the **Independent Variable**. | Identify the **Dependent Variable(s)**. |
| Identify conditions that will remain **constant** throughout this lab. |

**Hypothesis:** Complete the table below to write a hypothesis.

|  |
| --- |
| Predict how changing the independent variable will affect the dependent variable(s). |
| Explain why changing the independent variable will affect the dependent variable(s) as described above. |
| Write a direct quote from a reliable published source to support your explanation. Include a parenthetic reference at the end of the quote. |
| Write a proper APA citation for the source quoted above. |

Make 2 labeled diagrams of your wind turbine. Label the major parts, label where the mass is lifted, and label the change in the design.

**Diagram of Initial Wind Turbine Design**

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**Diagram of Wind Turbine Design with Independent Variable Changed**

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