Name:

Virtual Pendulum Analysis Questions

***This should be completed after you complete your virtual lab.* Answer these questions and then print this out when it is completed. If you don’t finish this before class ends, print out these questions and complete them at home. This is homework if not done in class. Staple these questions to your virtual lab.**

**Define the following terms:**

**Mass:**

**Explain how mass is used when describing the pendulum:**

**Gravity:**

**Explain how gravity is used when describing the pendulum:**

**Frequency:**

**Explain how frequency is used when describing the pendulum:**

**Pendulum:**

**Rate:**

**Explain how rate is used when describing the pendulum:**

**Conclusion:**

Write a conclusion paragraph about what affects the rate of the pendulum. This is a paragraph. It should flow from one sentence to the next and should not be written below each sentence requirement. It should be set up with the following information:

*Sentence 1: Introduction* Make a statement about what you though affected the rate of a pendulum. This would be in your hypothesis. Include a statement about whether or not your hypothesis is correct.

*Sentence 2: Angle* Explain whether the angle affects the rate of the pendulum. You MUST use data from your virtual lab in your explanation. *If you tested angles over 90 deg. these should not be included in your conclusion.*

*Sentence 3: Mass* Explain whether the mass affects the rate of the pendulum. You MUST use data from your virtual lab in your explanation.

*Sentence 4: Length* Explain whether the length affects the rate of the pendulum. You MUST use data from your virtual lab in your explanation.

Write your paragraph in this box.

**Thinking about the results of your lab answer the following questions.**

*Does mass affect how fast an objects falls? If you were to drop 10 pennies tied together from the top of a building which would hit the ground first?* Would they hit at the same time or would one hit the ground first. Place a check in the box you believe to be true.

|  |  |
| --- | --- |
|  | They would hit together |
|  | 10 pennies would hit first |
|  | 1 penny would hit first.  |

Explain why you picked this one: