Pendulum Lab Activity 1

Learning Goals: Students will be able to:

- •Design experiments to describe how variables affect the motion of a pendulum.
- •Use a photogate timer to determine quantitatively how the period of a pendulum depends on the variables you described.

I plan to have the sim open to demonstrate the answers, but I have included the results from the photogate timer just for precise evidence.

Trish Loeblein updated 7/20/2008

1. Which one swings faster? A.They go the same speed B.1 is faster C.2 is faster



Answer to 1





2.What is true about the maximum angle as they swing left?

- A. They have the same max angle
- B. 1 swings to a greater angle
- C. 2 swings to a greater angle



3. What will be the differences in the swinging patterns?

- A. There are no differences
- **B.** 1 swings higher; stops last
- C. 1 swings higher; stops first
- **D.** 1 swings lower; stops first
- E. 1 swings lower; stops last



4. Which one will stop first?

A. They stop at the same time
B. 1 stops first
C. 2 stops first



5. Which has the shortest period?



A. They have equal periodsB. 1 has a shorter periodC. 2 has a shorter period



Answer to 5

