

QUESTIONS TO HAND IN-EXPERIMENT 8

NAME _____

LAB INSTRUCTOR _____ LAB DAY/TIME _____

1. A simple pendulum with a 50 gram bob is observed to have a period of 2 seconds. What is the period if the mass is doubled to 100 grams?
2. What property of the pendulum can you change to alter the period?
3. A pendulum is observed to have a period of 2.5 seconds in Ohio. It is taken to Denver, where the altitude is much higher and g is smaller. Do you expect the period to increase, decrease, or stay the same?
4. If the length of a pendulum is cut in half, by what factor does its period change?
5. Find the period of a pendulum that is 1 meter in length. Take g to be equal to 10 m/s^2 .