

Name _____ # _____ Section _____

[SHM Phet Lab](#)

Purpose:

To use only a timer, 100 gm mass to determine the spring constant of a spring. To use the spring constant you found, and a timer, to find the inertial mass of three unknown objects.

Materials

3 unknown masses, spring with with an unknown spring constant, timer

Procedure I - Finding k

Describe the procedure you used to find the spring constant of the spring.

Describe what procedure you performed to increase the accuracy of your measurements. What equation did you use?

1. Your steps
2. Your steps
3. Your steps
4. Your steps
5. Your steps

Procedure II - Finding the size of the unknown masses

Describe the procedure you used to find the size of the unknown masses.

Describe what procedure you performed to increase the accuracy of your measurements.

1. Your steps
2. Your steps
3. Your steps
4. Your steps
5. Your steps

Data and Calculations

Spring Constant Calculation(s):

Unknown Mass Calculations

Red

Blue

Green