

Physics Lab 7 (Online Simulation)

- Find the displacement, force, and calculate the constant of the spring. Use $x = \dots$ m, Force $F = \dots$ N
 $k_{\text{spring}} = \dots$ N/m
- Using spring's constant you just found for the spring, determine the unknown masses of red and blue masses.
 $M_{\text{red}} = \dots$ kg $M_{\text{blue}} = \dots$ kg
- Using spring's constant you found for the first spring and unknown mass, determine the acceleration due to gravity of Jupiter, Mars, and Planet X.

1. Use an 100g with known spring constant as shown below:



- Apply the above settings and answer the questions 1 spring (100 g, 1, no damping, $\omega = 100$ rad/s)
 - Maximum damping, use study to assist
 - Check the displacement box to estimate the mass
 - Attach the 100g mass slowly and record the initial position of the spring-mass system
 - Then repeat additional three and five in the morning up and down so that it oscillates 10000
- Record the time it takes for 10 complete oscillations and calculate the period after time for one complete cycle.
 Time $t_1 = \dots$ s Period $T_1 = \dots$ s
- Using the spring constant found in step 1 and the 100g mass, calculate the period of the 1000. What was expected described in the introduction.
- Compare the periods you found in steps 4 and 5 to the one generated correct.
- Repeat steps 4 to 5 for Jupiter
 Step 4: Time $t_2 = \dots$ s Period $T_2 = \dots$ s
 Step 5: Period $T_2 = \dots$ s
 Step 6: Period (known force)
- Using the spring constant you found in step 1 and the red and blue masses found in step 2, calculate the period of these masses.
 $T_{\text{red}} = \dots$ s $T_{\text{blue}} = \dots$ s

End-of-Lab Questions

- How far would a spring with a constant of 20 N/m be extended with a force of 100 N? _____
- How much force would be required to stretch a spring ($k = 12$ N/m) 1.0 m? _____

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