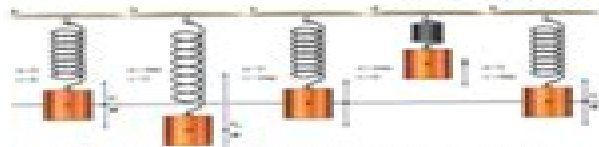


Springs PhET Lab - Periodic Motion and Hooke's Law



Introduction:

To stretch a spring, a force must be applied. Hooke's Law gives us the formula for how much force we need to apply to stretch or compress a spring. The spring constant "k" is the variable we use to express how stiff a spring is. A spring with

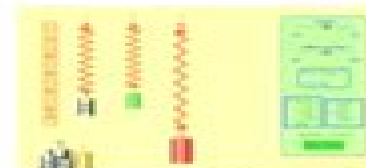
a large spring constant requires a large force to compress it. A car's springs have very large spring constants.

➤ Does the spring in a ballpoint pen have a large or small spring constant? Large

When a mass is attached to a spring vertically, as in the diagram above, the force that extends the spring is the mass's weight. The greater the weight (force, F) applied to the spring, the larger the spring's extension displacement (x).

Important Formulas: Hooke's Law: $F = kx$

Period of a Spring: $T = 2\pi\sqrt{\frac{m}{k}}$



Masses & Springs

Procedure: Play with the Sims → Motion → Masses and Springs Run Sim Use "Intro"

Part I: Determine the spring constant of spring #1

Hang a 50g mass from the first spring and measure the displacement (x) in meters. Change the mass and repeat. Fill out the table below:

Mass used (kg)	Weight, W = F (N)	Displacement, x (m)	Spring 1's spring constant, k
.050 kg			
.100 kg			
.250 kg			

Now using the spring's constant you just found, determine the unknown mass of the pink, cyan, and gold masses.

Spring 1's average, k	Displacement, x (m)	Weight, W (N)	Mass used, m (kg)
			Pink =
			Cyan =
			Gold =

Now hang a 100g mass from spring 1. Using the buttons on the right, determine the acceleration of gravity on Jupiter. (Hint...use k and x to find F...then use F and m to find a. Recall

$W = mg$ or $F = ma$)

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