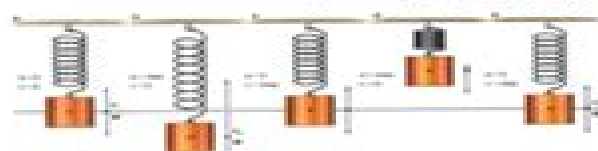


Springs PhET Lab - Periodic Motion and Hooke's Law



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

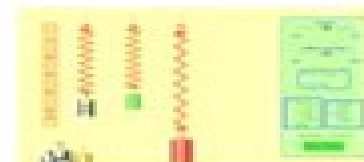
a large spring constant requires a large force to compress it. A car's springs have very large spring constants.

➤ 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 $F = ma$)

Springs Phet Lab Periodic Motion Answer Key

Terry C. Jones



Springs Phet Lab Periodic Motion Answer Key:

Unveiling the Energy of Verbal Artistry: An Mental Sojourn through **Springs Phet Lab Periodic Motion Answer Key**

In some sort of inundated with displays and the cacophony of immediate conversation, the profound energy and mental resonance of verbal beauty usually fade into obscurity, eclipsed by the continuous onslaught of noise and distractions. Yet, nestled within the musical pages of **Springs Phet Lab Periodic Motion Answer Key**, a fascinating perform of literary elegance that pulses with natural feelings, lies an memorable trip waiting to be embarked upon. Penned by a virtuoso wordsmith, this exciting opus books visitors on a psychological odyssey, delicately revealing the latent potential and profound affect embedded within the complicated internet of language. Within the heart-wrenching expanse of the evocative examination, we can embark upon an introspective exploration of the book is central subjects, dissect its fascinating writing design, and immerse ourselves in the indelible impression it leaves upon the depths of readers souls.

https://dev.vn.se/public/browse/Documents/Quick_Start_BookTok_Trending.pdf

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