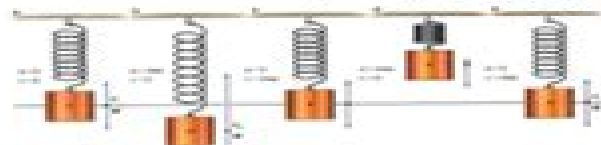


Springs PhET Lab - Periodic Motion and Hooke's Law



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

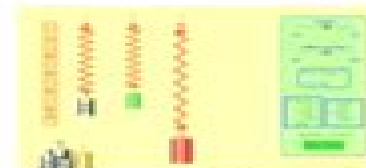
a large spring constant requires a large force to compress it. A car's springs have very large spring constants.

➤ 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 $F = ma$)

Phet Lab Answers Hookes Law

Kathleen Armour



Phet Lab Answers Hookes Law:

The book delves into Phet Lab Answers Hooke's Law. Phet Lab Answers Hooke's Law is an essential topic that needs to be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Phet Lab Answers Hooke's Law, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
 - Chapter 1: Introduction to Phet Lab Answers Hooke's Law
 - Chapter 2: Essential Elements of Phet Lab Answers Hooke's Law
 - Chapter 3: Phet Lab Answers Hooke's Law in Everyday Life
 - Chapter 4: Phet Lab Answers Hooke's Law in Specific Contexts
 - Chapter 5: Conclusion
 2. In chapter 1, this book will provide an overview of Phet Lab Answers Hooke's Law. This chapter will explore what Phet Lab Answers Hooke's Law is, why Phet Lab Answers Hooke's Law is vital, and how to effectively learn about Phet Lab Answers Hooke's Law.
 3. In chapter 2, this book will delve into the foundational concepts of Phet Lab Answers Hooke's Law. This chapter will elucidate the essential principles that need to be understood to grasp Phet Lab Answers Hooke's Law in its entirety.
 4. In chapter 3, this book will examine the practical applications of Phet Lab Answers Hooke's Law in daily life. The third chapter will showcase real-world examples of how Phet Lab Answers Hooke's Law can be effectively utilized in everyday scenarios.
 5. In chapter 4, the author will scrutinize the relevance of Phet Lab Answers Hooke's Law in specific contexts. The fourth chapter will explore how Phet Lab Answers Hooke's Law is applied in specialized fields, such as education, business, and technology.
 6. In chapter 5, the author will draw a conclusion about Phet Lab Answers Hooke's Law. The final chapter will summarize the key points that have been discussed throughout the book.
- The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Phet Lab Answers Hooke's Law.

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