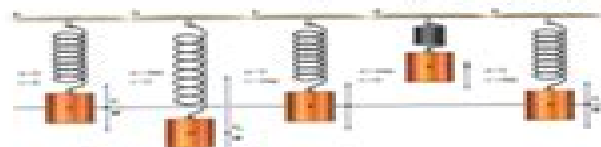


## Springs PhET Lab - Periodic Motion and Hooke's Law



### 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

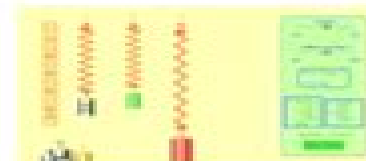
a large spring constant requires a large force to compress it. A car's springs have very large spring constants.

➤ 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

**Rachel Sandford**



## **Springs Phet Lab Periodic Motion Answer Key:**

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## **Table of Contents Springs Phet Lab Periodic Motion Answer Key**

1. Understanding the eBook Springs Phet Lab Periodic Motion Answer Key
  - The Rise of Digital Reading Springs Phet Lab Periodic Motion Answer Key
  - Advantages of eBooks Over Traditional Books
2. Identifying Springs Phet Lab Periodic Motion Answer Key
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Springs Phet Lab Periodic Motion Answer Key
  - User-Friendly Interface
4. Exploring eBook Recommendations from Springs Phet Lab Periodic Motion Answer Key
  - Personalized Recommendations
  - Springs Phet Lab Periodic Motion Answer Key User Reviews and Ratings
  - Springs Phet Lab Periodic Motion Answer Key and Bestseller Lists
5. Accessing Springs Phet Lab Periodic Motion Answer Key Free and Paid eBooks
  - Springs Phet Lab Periodic Motion Answer Key Public Domain eBooks
  - Springs Phet Lab Periodic Motion Answer Key eBook Subscription Services
  - Springs Phet Lab Periodic Motion Answer Key Budget-Friendly Options

6. Navigating Springs Phet Lab Periodic Motion Answer Key eBook Formats
  - ePub, PDF, MOBI, and More
  - Springs Phet Lab Periodic Motion Answer Key Compatibility with Devices
  - Springs Phet Lab Periodic Motion Answer Key Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Springs Phet Lab Periodic Motion Answer Key
  - Highlighting and Note-Taking Springs Phet Lab Periodic Motion Answer Key
  - Interactive Elements Springs Phet Lab Periodic Motion Answer Key
8. Staying Engaged with Springs Phet Lab Periodic Motion Answer Key
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Springs Phet Lab Periodic Motion Answer Key
9. Balancing eBooks and Physical Books Springs Phet Lab Periodic Motion Answer Key
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Springs Phet Lab Periodic Motion Answer Key
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Springs Phet Lab Periodic Motion Answer Key
  - Setting Reading Goals Springs Phet Lab Periodic Motion Answer Key
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Springs Phet Lab Periodic Motion Answer Key
  - Fact-Checking eBook Content of Springs Phet Lab Periodic Motion Answer Key
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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