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Student Exploration: Simple Harmonic Motion

Directions: Follow the instructions to go through the simulation. Respond to the questions and prompts in the orange boxes.

Vocabulary: controlled experiment, harmonic motion, oscillation, pendulum, period, spring, spring constant

Prior Knowledge Questions (Do these BEFORE using the Gizmo.)

1. A bungee jumper launches herself off a bridge. How would you describe her motion?

The bungee jumper travels in a way resembling a spring.

2. A child goes to the playground and gets on a swing. How would you describe his motion?

On a swing, the motion is similar to that of a pendulum.

3. What do the motions of the bungee jumper and swinger have in common?

They both have harmonic motion

Gizmo Warm-up

Harmonic motion is repeating back-and-forth or up-and-down movement. The *Simple Harmonic Motion* Gizmo allows you compare the harmonic motions of a **spring** and a **pendulum**.

To begin, open the **TOOLS** tab on the bottom right and drag one arrow to the bottom of the spring so that the weight just touches the tip of the arrow, as shown. Drag a second arrow so that the pendulum just touches the tip of the arrow when it swings to the left.



1. When the spring touches the arrow, click the green button on the stopwatch. Count the movements, or **oscillations**. Click the green button again after the tenth oscillation.

- A. What is the time for 10 oscillations of the spring?

5.65 sec

- B. Divide this time by 10 to find the **period** of the spring:

.565 sec

2. Click the red button to reset the stopwatch. Use the same procedure on the pendulum. What is the period of the pendulum?

2.55 sec

Simple Harmonic Motion Gizmo Answer Key

Anthony S. Fauci



Simple Harmonic Motion Gizmo Answer Key:

Reviewing **Simple Harmonic Motion Gizmo Answer Key**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is truly astonishing. Within the pages of "**Simple Harmonic Motion Gizmo Answer Key**," an enthralling opus penned by a very acclaimed wordsmith, readers attempt an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve in to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

<http://www.frostbox.com/files/detail/index.jsp/wild%20attraction%20a%20wild%20prequel%20english%20edition.pdf>

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