



Name: _____

Date: _____

Student Exploration: Simple Harmonic Motion

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?

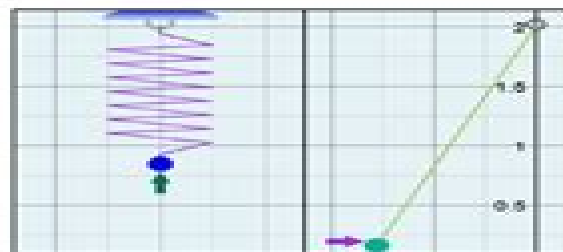
2. A child goes to the playground and gets on a swing. How would you describe his motion?

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

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? _____

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

2. Click the red button to reset the stopwatch. Use the same procedure on the pendulum.

What is the period of the pendulum? _____



Simple Harmonic Motion Gizmo Answers

**American Society for Engineering
Education**

A red circular graphic with a gradient, appearing as a semi-circle or a partial ring, located to the right of the American Society for Engineering Education text.

Simple Harmonic Motion Gizmo Answers:

Decoding **Simple Harmonic Motion Gizmo Answers**: Revealing the Captivating Potential of Verbal Expression

In a time characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its power to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Simple Harmonic Motion Gizmo Answers**," a mesmerizing literary creation penned by way of a celebrated wordsmith, readers attempt an enlightening odyssey, unraveling the intricate significance of language and its enduring affect our lives. In this appraisal, we shall explore the book is central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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