

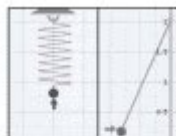
Name: _____ Date: _____

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 **POINTER** tray on the bottom of the Gizmo. 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? _____

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Observe two different forms of simple harmonic motion: a pendulum and a spring supporting a mass. Use a stopwatch to measure the period of each device as you adjust the mass hanging from the spring, the spring constant, the mass of the pendulum, the length of the pendulum, and the gravitational acceleration.

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1 A clown is rocking on a rocking chair in the dark. His glowing red nose moves back and forth a distance of 0.42 m exactly 30 times a MINUTE, in a simple harmonic motion.

SIMPLE HARMONIC MOTION PRACTICE PROBLEMS ANSWERS

AnswerSimple Harmonic Motion Can every oscillatory motion be treated as simple harmonic motion in the limit of small amplitude? No. Simple harmonic motion requires that the acceleration is...

Simple harmonic motion? - Answers

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