



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?

The bungee jumper's motion would be like that of a spring. She is constantly going up and down and she will eventually reach equilibrium.

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

The child's motion would be simple harmonic motion. It's swinging back and forward and will eventually reach equilibrium.

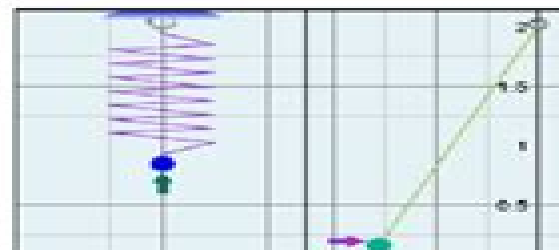
3. What do the motions of the bungee jumper and swinger have in common?

The motions of the bungee jumper and swinger have in common by being simple 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? **5.90 s**

B. Divide this time by 10 to find the **period** of the spring: **0.59**

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

What is the period of the pendulum? **2.685**

# Explore Learning Student Exploration Sheet Simple Harmonic Motion Answers

**Christian Drosten**



**Explore Learning Student Exploration Sheet Simple Harmonic Motion Answers:**

American Journal of Physics ,1992

**Current Index to Journals in Education** ,1989

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