



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?

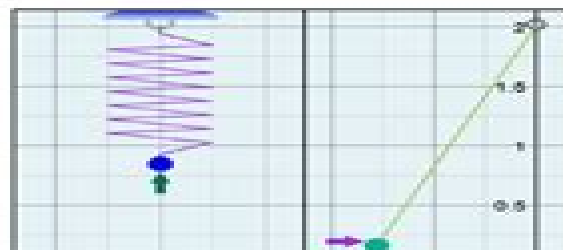
2. A child goes to the playground and gets on a swing. How would you describe his motion?

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

Inge Bruggeman



Simple Harmonic Motion Gizmo Answers:

Engineering Education, Preparation for Life American Society for Engineering Education. Conference, 1984

Proceedings American Society for Engineering Education. Conference, 1984 **Proceedings** American Society for Engineering Education, 1984 **Simple Harmonic Motions** Inge Bruggeman, 2001

The book delves into Simple Harmonic Motion Gizmo Answers. Simple Harmonic Motion Gizmo Answers is a vital topic that must be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Simple Harmonic Motion Gizmo Answers, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
 - Chapter 1: Introduction to Simple Harmonic Motion Gizmo Answers
 - Chapter 2: Essential Elements of Simple Harmonic Motion Gizmo Answers
 - Chapter 3: Simple Harmonic Motion Gizmo Answers in Everyday Life
 - Chapter 4: Simple Harmonic Motion Gizmo Answers in Specific Contexts
 - Chapter 5: Conclusion
 2. In chapter 1, the author will provide an overview of Simple Harmonic Motion Gizmo Answers. This chapter will explore what Simple Harmonic Motion Gizmo Answers is, why Simple Harmonic Motion Gizmo Answers is vital, and how to effectively learn about Simple Harmonic Motion Gizmo Answers.
 3. In chapter 2, the author will delve into the foundational concepts of Simple Harmonic Motion Gizmo Answers. This chapter will elucidate the essential principles that must be understood to grasp Simple Harmonic Motion Gizmo Answers in its entirety.
 4. In chapter 3, the author will examine the practical applications of Simple Harmonic Motion Gizmo Answers in daily life. This chapter will showcase real-world examples of how Simple Harmonic Motion Gizmo Answers can be effectively utilized in everyday scenarios.
 5. In chapter 4, the author will scrutinize the relevance of Simple Harmonic Motion Gizmo Answers in specific contexts. The fourth chapter will explore how Simple Harmonic Motion Gizmo Answers is applied in specialized fields, such as education, business, and technology.
 6. In chapter 5, the author will draw a conclusion about Simple Harmonic Motion Gizmo Answers. The final chapter will summarize the key points that have been discussed throughout the book.
- The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Simple Harmonic Motion Gizmo Answers.

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Simple Harmonic Motion Gizmo Answers Introduction

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