



Name: _____

Date: _____

Student Exploration: Waves

Vocabulary: amplitude, compression, crest, frequency, linear mass density, longitudinal wave, medium, period, power, rarefaction, transverse wave, trough, wave, wavelength, wave speed

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

1. A buoy is anchored to the ocean floor. A large wave approaches the buoy. How will the buoy move as the wave goes by?

The buoy will move up and down



2. The two images show side views of ocean waves. How are the two sets of waves different?

The first one is a transverse wave and the second one is a longitudinal wave. The second one is also flatter than the first one



Gizmo Warm-up

Ocean swells are an example of **waves**. In the Waves Gizmo, you will observe wave motion on a model of a spring. The hand can move the spring up and down or back and forth.



To begin, check that the **Type of wave** is **Transverse**, **Amplitude** is 20.0 cm, **Frequency** is 0.75 Hz, **Tension** is 3.0 N, and **Density** is 1.0 kg/m. (Note: In this Gizmo, "density" refers to the **linear mass density**, or mass per unit length. It is measured in units of kilograms per meter.)

1. Click **Play** (▶). How would you describe the motion of a **transverse wave**? _____

The wave moves left to right and oscillates up and down while the hand moves up and down

Click **Pause** (⏸). Notice the **crests** (high points) and **troughs** (low points) of the wave.

2. Click **Reset** (↺). Choose the **Longitudinal** wave and increase the **Amplitude** to 20.0 cm.

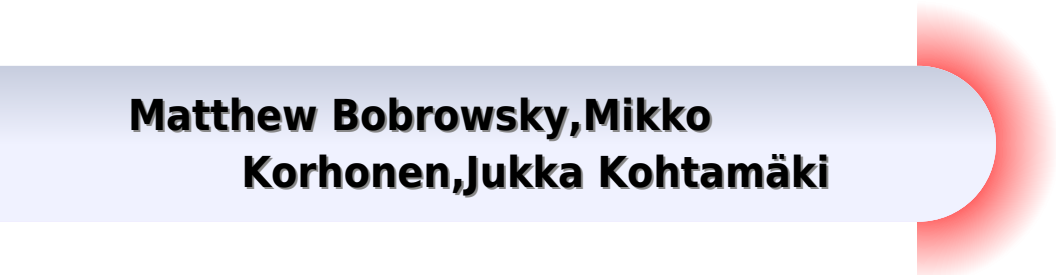
Click **Play**. How would you describe the motion of a **longitudinal wave**? _____
The spring model moves back and forth as the wave goes from left to right

Click **Pause**. Notice the **compressions** in the wave where the coils of the spring model are close together and the **rarefactions** where the coils are spread apart.



Gizmo Packet Answers For Waves In Physics

**Matthew Bobrowsky, Mikko
Korhonen, Jukka Kohtamäki**



Gizmo Packet Answers For Waves In Physics:

Using Physics Gadgets and Gizmos, Grades 9-12 Matthew Bobrowsky, Mikko Korhonen, Jukka Kohtamäki, 2014-03-01 What student or teacher can resist the chance to experiment with Rocket Launchers Drinking Birds Dropper Poppers Boomwhackers Flying Pigs and more The 54 experiments in Using Physics Gadgets and Gizmos Grades 9 12 encourage your high school students to explore a variety of phenomena involved with pressure and force thermodynamics energy light and color resonance buoyancy two dimensional motion angular momentum magnetism and electromagnetic induction The authors say there are three good reasons to buy this book 1 To improve your students thinking skills and problem solving abilities 2 To acquire easy to perform experiments that engage students in the topic 3 To make your physics lessons waaaaay more cool The phenomenon based learning PBL approach used by the authors two Finnish teachers and a U S professor is as educational as the experiments are attention grabbing Instead of putting the theory before the application PBL encourages students to first experience how the gadgets work and then grow curious enough to find out why Students engage in the activities not as a task to be completed but as exploration and discovery The idea is to help your students go beyond simply memorizing physics facts Using Physics Gadgets and Gizmos can help them learn broader concepts useful critical thinking skills and science and engineering practices as defined by the Next Generation Science Standards And thanks to those Boomwhackers and Flying Pigs both your students and you will have some serious fun For more information about hands on materials for Using Physical Science Gadgets and Gizmos books visit Arbor Scientific at http://www.arborsci.com/nsta_hk_kits

Waves Rumi Michael Leigh, 2023-05-24 Waves Things You Should Know Questions and Answers explains the principles of wave motion through a question and answer format The text covers frequency wavelength amplitude velocity and energy transfer with worked examples to show how these properties are applied in physics Topics include mechanical waves sound waves light waves and electromagnetic waves with attention to how they propagate and interact Exercises move from basic definitions to more advanced problems including calculations of wave speed period and phase difference The book also examines reflection refraction interference and resonance connecting theoretical concepts with problem solving practice This book will interest students physics learners and exam candidates who want to study waves and their role in science

Gizmo Packet Answers For Waves In Physics Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has are more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Gizmo Packet Answers For Waves In Physics**," compiled by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound affect our existence. Throughout this critique, we will delve to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

https://staging.conocer.cide.edu/results/Resources/Download_PDFS/House_Of_Reeds.pdf

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