

Name: zzz 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.)

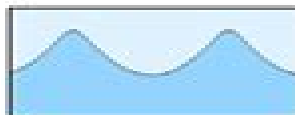
1. A buoy is anchored to the ocean floor. A large wave approaches the buoy. How will the buoy move as the wave goes by?

A buoy will move down and up as the wave goes by.



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

A) The first wave is a longitudinal wave and the other one is a transverse wave. Also in the second one the distance is separated more.



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**?

A) The wave moves left to right 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**?

Answer Key Student Exploration Waves

Cliona Hannon



Answer Key Student Exploration Waves:

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Table of Contents Answer Key Student Exploration Waves

1. Understanding the eBook Answer Key Student Exploration Waves
 - The Rise of Digital Reading Answer Key Student Exploration Waves
 - Advantages of eBooks Over Traditional Books
2. Identifying Answer Key Student Exploration Waves
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Answer Key Student Exploration Waves
 - User-Friendly Interface
4. Exploring eBook Recommendations from Answer Key Student Exploration Waves
 - Personalized Recommendations
 - Answer Key Student Exploration Waves User Reviews and Ratings
 - Answer Key Student Exploration Waves and Bestseller Lists
5. Accessing Answer Key Student Exploration Waves Free and Paid eBooks
 - Answer Key Student Exploration Waves Public Domain eBooks
 - Answer Key Student Exploration Waves eBook Subscription Services

- Answer Key Student Exploration Waves Budget-Friendly Options
- 6. Navigating Answer Key Student Exploration Waves eBook Formats
 - ePub, PDF, MOBI, and More
 - Answer Key Student Exploration Waves Compatibility with Devices
 - Answer Key Student Exploration Waves Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Answer Key Student Exploration Waves
 - Highlighting and Note-Taking Answer Key Student Exploration Waves
 - Interactive Elements Answer Key Student Exploration Waves
- 8. Staying Engaged with Answer Key Student Exploration Waves
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Answer Key Student Exploration Waves
- 9. Balancing eBooks and Physical Books Answer Key Student Exploration Waves
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Answer Key Student Exploration Waves
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Answer Key Student Exploration Waves
 - Setting Reading Goals Answer Key Student Exploration Waves
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Answer Key Student Exploration Waves
 - Fact-Checking eBook Content of Answer Key Student Exploration Waves
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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