

## Waves

## Answer Key

**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.)

*[Note: The purpose of these questions is to activate prior knowledge and get students thinking. Students are not expected to know the answers to the Prior Knowledge Questions.]*

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?

*Answers will vary. [The buoy will move up and down and back and forth, tracing a circular motion, as the wave passes.]*



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

*Sample answer: The waves in the left image are closer together and higher than the waves in the right image. The tops (crests) of the waves on the left are pointier.*



### 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 coils of the spring model move up and down as the wave goes from left to right.*

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 coils of the spring model move 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.

# Answer Key Student Exploration Waves

**Peipei Pang**



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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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