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

Michael J. Padilla,Ioannis Miaoulis,Martha Cyr,Jay M. Pasachoff

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Insights ,1996   *Merrill Earth Science* Ralph M. Feather,Susan Leach Snyder,Dale T. Hesser,1995   **Energy** ,2013   Science Scope ,2002   2003 Physics Education Research Conference Jeffrey Marx,Scott Franklin,Karen Cummings,2004-09-09 The 2003 Physics Education Research Conference Proceedings contains peer reviewed and invited papers based on oral presentations and posters The papers span topics including instructional assessment data analysis student understanding and issues of learning

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