Name: zzz Date:

Student Exploration: Waves

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

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

 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.)

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.

Click Reset (2). 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

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Unveiling the Magic of Words: A Review of "Answer Key Student Exploration Waves"

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