

Student Exploration: Longitudinal Waves



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

In many science fiction movies, an evil alien spaceship explodes with an enormous KABOOM!!

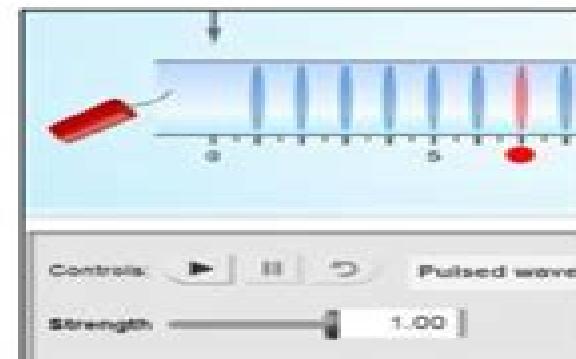
Suppose you were floating in space at a safe distance from a large explosion such as the supernova at left. Do you think you would hear anything? Explain.

I don't think so, I think the sound doesn't have anything to vibrate to make the noise in space.

Gizmo Warm-up

No sounds can be heard in outer space because sound waves require a medium, such as air, to travel through. Sound waves are examples of longitudinal waves, or waves in which particles move back and forth in the same direction as the wave.

You can use the *Longitudinal Waves* Gizmo™ to explore the behavior of sound waves. In the Gizmo, an air-filled tube contains 24 evenly-spaced, airtight dividers. To begin, select the **Pulsed waves** setting and the **Open tube**. Set the **Strength** to 1.00. Deselect the graph options at lower right.



1. Click Play (▶) to set off the firecracker by the left end of the tube. What do you see?

The wave oscillates left to right and then back, and then dips below 0 on the second round and every other one after.

2. Do any individual air molecules travel the length of the tube? How do you know?

I think they do, the airtight dividers don't block the air molecules from travelling through.



Answers To The Longitudinal Waves Gizmo

G. M. Sessler

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The Bragg Method Demonstrated with Longitudinal Waves George Barnes,1946 **Propagation of Longitudinal Waves in a Weakly Ionized Gas** G. M. Sessler,1964 On the dispersion of longitudinal waves in elastic rods of rectangular cross-section according to the one-dimensional theory of wave propagation based on the 'methods of internal constraints' E. G. Volterra,1956

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