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Student Exploration: Longitudinal Waves

Vocabulary: antinode, compression, displacement, frequency, interference, longitudinal wave, medium, node, rarefaction, standing wave



Prior Knowledge Question (Do this BEFORE using the Gizmo.)

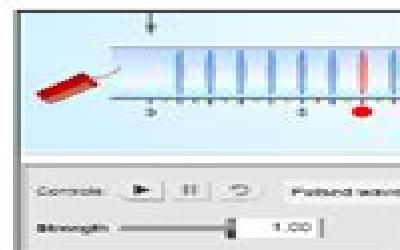
In many science fiction movies, an evil alien spaceship explodes with an enormous KABOOM!!

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, the sound doesn't have anything to vibrate to make the noise in space.

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 moves left and right and then back. Also, it also dips below 0 on the second round and every other one after.
2. Do any individual air molecules travel the length of the tube? I think they do.

How do you know? The airtight dividers didn't block the air molecules from travelling through.

Gizmo Longitudinal Waves Answer Key

S Ashworth

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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