

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!!

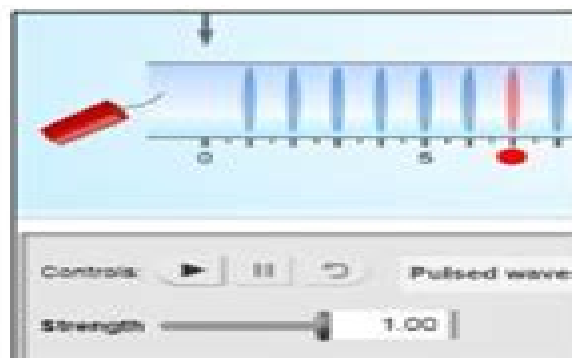
Suppose you were floating in space at a safe distance from a large explosion such as the supernova at left. Do you think you would hear anything? Explain.

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.

Gizmo Waves Answer Sheet

Mameve Medwed

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the name bar.

Gizmo Waves Answer Sheet:

Mail Mameve Medwed, 2001-01-01 Reminiscent of the novels of Nora Ephron this brilliantly written hilariously touching tale explores a contemporary woman's quirky love life Katinka O Toole has discovered that a degree from Harvard does not always lead to fame and fortune Divorced and struggling to make a living as a writer the highlight of her day has become the arrival of the mail Or more precisely the mailman Yes she hopes for an acceptance letter but she also has a fierce crush on Louie Capetti her gorgeous postal carrier who she hopes will carry her away to romantic bliss So while she has taken to receiving her mail in discount Dior she also has to deal with her pretentious ex husband a noted Joycean scholar her class conscious mother the unwanted affections of a corporate lawyer and various other roadblocks to true love that plague smart women in today's society

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