

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!!

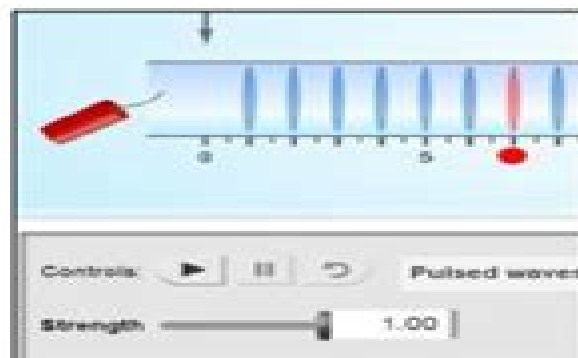
Suppose you were floating in space at a safe distance from a large explosion such as the supernova at left. Do you think you would hear anything? Explain.

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 Longitudinal Waves Answer Key

L Manion

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.

Gizmo Longitudinal Waves Answer Key:

Whispering the Strategies of Language: An Psychological Journey through **Gizmo Longitudinal Waves Answer Key**

In a digitally-driven world where displays reign great and immediate connection drowns out the subtleties of language, the profound strategies and psychological subtleties hidden within words frequently get unheard. However, set within the pages of **Gizmo Longitudinal Waves Answer Key** a interesting literary prize pulsing with fresh emotions, lies a fantastic quest waiting to be undertaken. Published by an experienced wordsmith, this wonderful opus encourages readers on an introspective journey, delicately unraveling the veiled truths and profound affect resonating within the material of every word. Within the mental depths of the touching review, we shall embark upon a sincere exploration of the book is primary subjects, dissect its captivating writing model, and fail to the strong resonance it evokes deep within the recesses of readers hearts.

<https://equityfwd.org/public/uploaded-files/index.jsp/Manual%20Handling%20Martock%20Somerset.pdf>

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