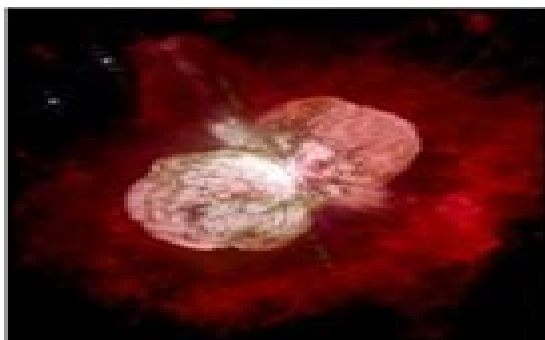


Student Exploration: Longitudinal Waves



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

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

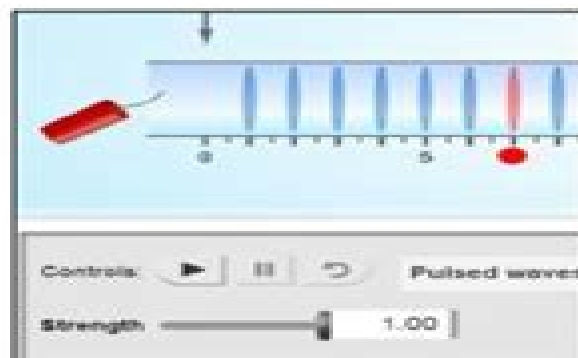
Suppose you were floating in space at a safe distance from a large explosion such as the supernova at left. Do you think you would hear anything? Explain.

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.

Longitudinal Waves Gizmo Answers

G. M. Sessler

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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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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Table of Contents Longitudinal Waves Gizmo Answers

1. Understanding the eBook Longitudinal Waves Gizmo Answers
 - The Rise of Digital Reading Longitudinal Waves Gizmo Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Longitudinal Waves Gizmo Answers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Longitudinal Waves Gizmo Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Longitudinal Waves Gizmo Answers
 - Personalized Recommendations
 - Longitudinal Waves Gizmo Answers User Reviews and Ratings
 - Longitudinal Waves Gizmo Answers and Bestseller Lists
5. Accessing Longitudinal Waves Gizmo Answers Free and Paid eBooks
 - Longitudinal Waves Gizmo Answers Public Domain eBooks
 - Longitudinal Waves Gizmo Answers eBook Subscription Services
 - Longitudinal Waves Gizmo Answers Budget-Friendly Options

6. Navigating Longitudinal Waves Gizmo Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Longitudinal Waves Gizmo Answers Compatibility with Devices
 - Longitudinal Waves Gizmo Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Longitudinal Waves Gizmo Answers
 - Highlighting and Note-Taking Longitudinal Waves Gizmo Answers
 - Interactive Elements Longitudinal Waves Gizmo Answers
8. Staying Engaged with Longitudinal Waves Gizmo Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Longitudinal Waves Gizmo Answers
9. Balancing eBooks and Physical Books Longitudinal Waves Gizmo Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Longitudinal Waves Gizmo Answers
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Longitudinal Waves Gizmo Answers
 - Setting Reading Goals Longitudinal Waves Gizmo Answers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Longitudinal Waves Gizmo Answers
 - Fact-Checking eBook Content of Longitudinal Waves Gizmo Answers
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

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- Interactive and Gamified eBooks

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