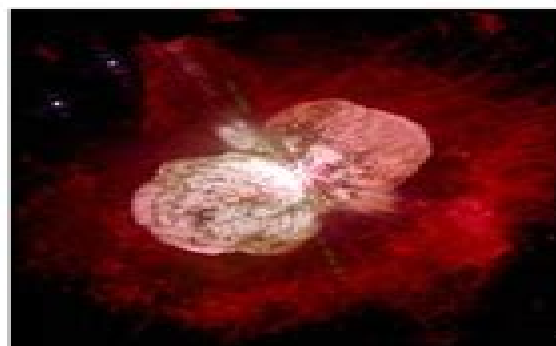


Name: Donovan Milsap

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.)

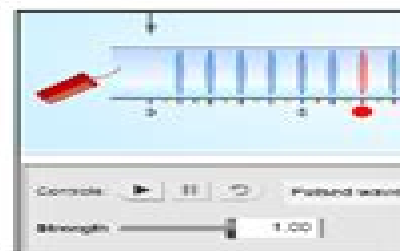
In many science fiction movies, an evil alien spaceship explodes with an enormous KABOOM!!

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.

Explore Learning Gizmo Answers Longitudinal Waves

Daniel F McAuley



Explore Learning Gizmo Answers Longitudinal Waves:

The book delves into Explore Learning Gizmo Answers Longitudinal Waves. Explore Learning Gizmo Answers Longitudinal Waves is a vital topic that needs to be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Explore Learning Gizmo Answers Longitudinal Waves, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
 - Chapter 1: Introduction to Explore Learning Gizmo Answers Longitudinal Waves
 - Chapter 2: Essential Elements of Explore Learning Gizmo Answers Longitudinal Waves
 - Chapter 3: Explore Learning Gizmo Answers Longitudinal Waves in Everyday Life
 - Chapter 4: Explore Learning Gizmo Answers Longitudinal Waves in Specific Contexts
 - Chapter 5: Conclusion
 2. In chapter 1, this book will provide an overview of Explore Learning Gizmo Answers Longitudinal Waves. The first chapter will explore what Explore Learning Gizmo Answers Longitudinal Waves is, why Explore Learning Gizmo Answers Longitudinal Waves is vital, and how to effectively learn about Explore Learning Gizmo Answers Longitudinal Waves.
 3. In chapter 2, the author will delve into the foundational concepts of Explore Learning Gizmo Answers Longitudinal Waves. The second chapter will elucidate the essential principles that must be understood to grasp Explore Learning Gizmo Answers Longitudinal Waves in its entirety.
 4. In chapter 3, this book will examine the practical applications of Explore Learning Gizmo Answers Longitudinal Waves in daily life. The third chapter will showcase real-world examples of how Explore Learning Gizmo Answers Longitudinal Waves can be effectively utilized in everyday scenarios.
 5. In chapter 4, this book will scrutinize the relevance of Explore Learning Gizmo Answers Longitudinal Waves in specific contexts. This chapter will explore how Explore Learning Gizmo Answers Longitudinal Waves is applied in specialized fields, such as education, business, and technology.
 6. In chapter 5, the author will draw a conclusion about Explore Learning Gizmo Answers Longitudinal Waves. The final chapter will summarize the key points that have been discussed throughout the book.
- The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Explore Learning Gizmo Answers Longitudinal Waves.

<https://staging.conocer.cide.edu/results/publication/Documents/Honda%20Jazz%20Owner%20Manual%202009.pdf>

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