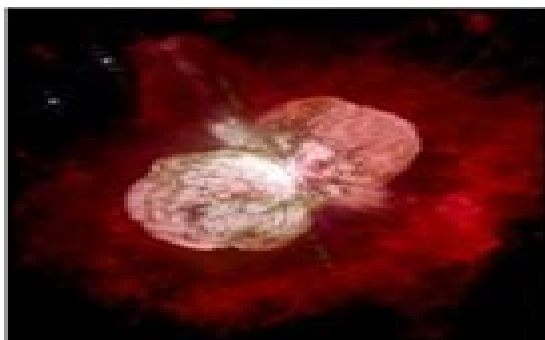


Student Exploration: Longitudinal Waves



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

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

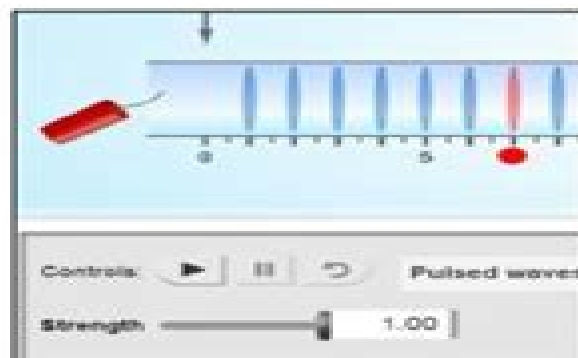
Suppose you were floating in space at a safe distance from a large explosion such as the supernova at left. Do you think you would hear anything? Explain.

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.

Student Exploration Longitudinal Waves Teachers Guide

Anthony Montgomery, Ian Kehoe



Student Exploration Longitudinal Waves Teachers Guide:

Tg/Sci+ Interactv Explortns CD-ROM Blue Holt Rinehart & Winston,1998 Physics Jim Breithaupt,1994 This teacher s guide accompanies a textbook written for the co ordinated science syllabuses under the National Curriculum and for Science Physics There are companion volumes on biology and chemistry Topics are differentiated into core material for Double Single Science and extension material for Science Physics These topics are linked to related ones in the companion volumes but the links are optional allowing the physics book to stand alone The teacher s guide includes a link to the Programme of Study for Sc4 and part of Sc3 and an analysis of the separate science syllabuses of all the main boards Resources in Education

,1999 **Research in Education** ,1971 *Research Essentials* Stephen D. Lapan,MaryLynn T. Quartaroli,2009-02-03 This is an accessible and practical introduction to research that addresses the broadest spectrum of research methodologies of interest to the student or new research from experimental and survey approaches to program evaluation and ethnography Research Essentials includes key interpretive and qualitative strategies The book shows the role that research plays in the social sciences and education followed by an overview of research traditions It offers practical examples and relevant resources across the disciplines Other features include study questions lists of relevant journals web sites and organizations

Reimagining the Purpose of Schools and Educational Organisations Anthony Montgomery,Ian Kehoe,2015-12-22 This book features a diverse set of perspectives all focused towards questioning the role schools actually play in society and more importantly the role they could potentially play Containing papers presented at the 1st International Conference on Reimagining Schooling which took place in Thessaloniki Greece June 2013 bringing together international and multi disciplinary perspectives on the future of education and schools Combines diverse specialties analyzing schools as organizations and questions the purpose of schools The book explores the current purpose of schooling and debates what roles and values young people currently learn from schooling It examines such issues as the impact of Neoliberalism the pursuit of the socially just school and imagining contemporary schools beyond their consumerist mentality Tackling development in the growing economic and social crisis in Europe and offering transformative analysis of the psychology and decision making involved for innovating teaching learning socio economic and policy contexts In addition the book shows different ways young people can be creatively involved in reimagining schooling It also details both innovative and radical ideas that currently exist about school transformation such as building learning partnerships for all and creating synergies across formal and informal settings of learning Raising important questions for the future of the relationship between teacher and pupil and positive and pro active behavior There is a growing realization that schools fail to accommodate diverse types of learning and that their purpose is not simply about education Featuring academics and practitioners from many different disciplines this book boldly questions the values that currently permeate school walls and suggests ways that schooling itself can be made better **Monthly Catalogue, United States Public Documents** ,1991 Monthly Catalog of United

States Government Publications United States. Superintendent of Documents,1991 Physics Teaching and Learning Dennis W. Sunal,Jonathan T. Shemwell,James W. Harrell,Cynthia S Sunal,2019-05-01 Physics Teaching and Learning Challenging the Paradigm RISE Volume 8 focuses on research contributions challenging the basic assumptions ways of thinking and practices commonly accepted in physics education Teaching physics involves multifaceted research based value added strategies designed to improve academic engagement and depth of learning In this volume researchers teaching and curriculum reformers and reform implementers discuss a range of important issues The volume should be considered as a first step in thinking through what physics teaching and physics learning might address in teacher preparation programs in service professional development programs and in classrooms To facilitate thinking about research based physics teaching and learning each chapter in the volume was organized around five common elements 1 A significant review of research in the issue or problem area 2 Themes addressed are relevant for the teaching and learning of K 16 science 3 Discussion of original research by the author s addressing the major theme of the chapter 4 Bridge gaps between theory and practice and or research and practice 5 Concerns and needs are addressed of school community context stakeholders including students teachers parents administrators and community members **Science Books & Films** ,1987 *Safeguarding in sports* Miguel Venda Nery,Peter Smith,Melanie Lang,Tine Vertommen,Ashley Stirling,2023-04-04 For this publication the editorial board has been intentionally broad in how they have interpreted safeguarding including empirical work on a wide range of topics such as maltreatment violence child abuse discrimination and policy development It comprises investigations of different types of violence maltreatment and harm in sport conceptual discussions of the nature prevalence and prevention of forms of maltreatment critical discussions of the effects of maltreatment on those affected and analyses of strategies on safeguarding in sport **Reading and Writing Skills: Cognitive, Emotional, Creative, and Digital Approaches** María Isabel de Vicente-Yagüe Jara,Elena Jiménez-Pérez,Pedro García Guirao,Olivia López Martínez,2023-12-14 *Resources in Education* ,1996 Bulletin of the Atomic Scientists ,1970-06 The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security Founded by Manhattan Project Scientists the Bulletin s iconic Doomsday Clock stimulates solutions for a safer world *Australian National Bibliography* ,1990 *The Software Encyclopedia 2001* ,2001 Prentice Hall Physical Science Concepts in Action Program Planner National Chemistry Physics Earth Science ,2003-11 Prentice Hall Physical Science Concepts in Action helps students make the important connection between the science they read and what they experience every day Relevant content lively explorations and a wealth of hands on activities take students understanding of science beyond the page and into the world around them Now includes even more technology tools and activities to support differentiated instruction Worlds Apart? Tammy Berberi,Elizabeth C. Hamilton,Ian M. Sutherland,2008-10-01 Worlds Apart brings together scholars and teachers from around the world who examine foreign language education from general requirements through advanced literature and film

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