

Chapter 26 Sound

Exercises

26.1 The Origin of Sound (page 515)

Match each sound source with the part that vibrates.

Sound Source	Vibrating Part
<u>a</u> 1. violin	a. strings
<u>b</u> 2. your voice	b. reed
<u>d</u> 3. saxophone	c. column of air at the mouthpiece
<u>c</u> 4. flute	d. vocal chords
5. Sound waves are a type of <u>longitudinal</u> wave.	
6. What normally determines the frequency of sound waves? <u>The frequency of sound waves produced normally have the same frequency as the vibrating source.</u>	
7. Define pitch. <u>Pitch is our subjective impression about the frequency of sound.</u>	
8. As people grow older, they often have more trouble hearing sounds at the <u>high</u> end of the range of frequencies.	
9. Sound waves with frequencies below the normal range are <u>infrasonic</u> waves.	
10. Sound waves with frequencies above the normal range are <u>ultrasonic</u> waves.	

26.2 Sound in Air (pages 515–517)

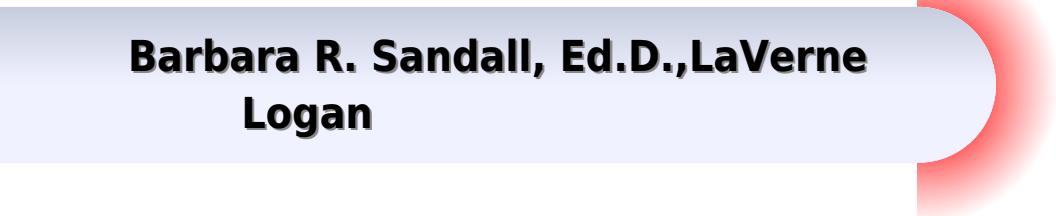
11. Is the following sentence true or false? Sound vibrates the air much like particles move back and forth along a stretched spring. true
12. A pulse of compressed air is called a compression, and a pulse of low-pressure air is called a rarefaction.
13. For all wave motion, it is not the medium that travels, but a pulse that travels.
14. Explain what happens when a tuning fork is struck against one end of an open tube.
When the prong is struck, a compression enters the tube. When the prong swings away, a rarefaction follows the compression. A series of compressions and rarefactions is produced within the tube as the fork continues to vibrate.

26.3 Media That Transmit Sound (page 517)

15. What did Native Americans learn long ago when they put their ears to the ground?
They could hear the hoofbeats of distant horses through the ground before they could hear them through the air.

Conceptual Physics Sound Answers

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Logan**



Conceptual Physics Sound Answers:

Light and Sound, Grades 6 - 12 Barbara R. Sandall, Ed.D., LaVerne Logan, 2010-01-04 Topics include what light and sound waves are how they travel and how the human body sees light and hears sound Facilitates planning for the diverse learning styles and skill levels of middle school students Glossary materials lists inquiry investigation rubric and bibliography included

Test Bank for Zimbardo, Weber and Johnson Psychology, Third Edition Thomas Land, 2000 Psychology Third Edition builds upon the experience and reputations of Phil Zimbardo and Ann Weber with the addition of a new co author Bob Johnson who has a wealth of teaching experience at the community college level This briefer less expensive book presents psychology in a meaningful manageable format that focuses on the key questions and core concepts of psychology Introductory psychology covers such a wide range of topics and issues that it becomes difficult for readers to see the forest for the trees To make key psychological concepts more meaningful the authors found inspiration in a classic chess study This study showed that experts did no better than novices at remembering the location of pieces on a chess board when they were placed randomly Only when the patterns represented actual game situations did they make sense and therefore become more easily memorable for the experts Clearly meaningful patterns are easier to remember and understand than random arrangements and Psychology applies this by presenting the field of psychology in meaningful patterns to enhance comprehension These concepts are then applied to readers own lives study skills and the world around them Finally Psychology integrates a cross cultural and multicultural perspective to make psychology meaningful for everyone For anyone interested in Introductory Psychology **Physics** John D. Cutnell, 2004 **2003 Physics Education Research**

Conference Jeffrey Marx, Scott Franklin, Karen Cummings, 2004-09-09 Papers from an August 2003 conference report on the latest research in physics education Some specific topics covered include empirical investigations of student understanding the myth of gender neutrality using mapped samples to look for sex differences and students representational coherence of Newton's first and second laws Other topics are **2005 Physics Education Research Conference** Paula Heron, Laura McCullough, Jeffrey Marx, 2006-03-08 The papers included in these proceedings have been peer reviewed The 2005 Physics Education Research Conference covered a broad spectrum of current research directions including student learning of specific topics student attitudes and the effectiveness of various teaching methods The emphasis was on undergraduate instruction The theme of this conference was Connecting Physics Education Research Teacher Education at All Levels K 20

Lights! Sound! Physics! Kathryn Ebrahimi, 2002 **Teaching Tips** Marvin Druger, Eleanor Dantzer Siebert, Linda W. Crow, 2004 Like a spirited idea exchange among experienced professors Teaching Tips Innovations in Undergraduate Science Instruction brings you the best thinking about how to engage undergraduate science students Most of the ideas in the book are applicable across the sciences **National Library of Medicine Audiovisuals Catalog** National Library of Medicine (U.S.), 1991 **Evaluation Package for Cutnell and Johnson Physics 8E** Cutnell, 2008-10-28 *Instructor's Manual [to*

Accompany] *Conceptual Physics, Eighth Ed* Paul G. Hewitt, 1998 *Conceptual Physics Tenth Edition* helps readers connect physics to their everyday experiences and the world around them with additional help on solving more mathematical problems Hewitt's text is famous for engaging readers with analogies and imagery from real world situations that build a strong conceptual understanding of physical principles ranging from classical mechanics to modern physics With this strong foundation readers are better equipped to understand the equations and formulas of physics and motivated to explore the thought provoking exercises and fun projects in each chapter Included in the package is the workbook *Mechanics Properties of Matter Heat Sound Electricity and Magnetism Light Atomic and Nuclear Physics Relativity* For all readers interested in conceptual physics

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2006 Physics Education Research Conference Laura McCullough, Paula Heron, Leon Hsu, 2007-03-05 Syracuse New York 26-27 July 2006

College Physics: Volume 1 Roger Freedman, David L. Tauck, Philip R. Kesten, 2013-07-12 *College Physics* brings physics to life through a unique approach to the algebra level introductory physics course Its winning combination of annotated art carefully integrated life sciences applications and strong problem solving and conceptual understanding pedagogy makes this the best text available for helping students master the physics they need to know for their future careers Using innovative visual cues to break down physics concepts and sequences in numbered equations and figures *College Physics* leads students to develop the crucial conceptual understanding they need to be successful in the course Carefully crafted to support students new to college level physics pedagogical features chapter goals Take Home Messages Got the Concept Watch Out guide students to becoming adept problem solvers By incorporating a rigorous presentation of the fundamentals of algebra based introductory physics with formative physiology biomedical and life science topics students learn to connect physics to living systems The ultimate goal is for students to have both a solid foundation in physics and to develop a deeper appreciation for why physics is important to their future work in the life sciences

The Elementary School Library Collection, Phases 1-2-3, 1994

2007 Physics Education Research Conference Leon Hsu, Charles Henderson, Laura McCullough, 2007-11-26 This text brings together peer reviewed papers from the 2007 Physics Education Research Conference whose theme was Cognitive Science and Physics Education Research The conference brought together researchers studying a wide variety of topics in physics education including transfer of knowledge learning in physics courses at all levels teacher education and cross disciplinary learning This up to date text will be essential reading for anyone in physics education research

Sparknotes SAT., 2005 The SAT II Subject Tests are created and administered by the College Board and the Educational Testing Service ETS the two organizations responsible for the dreaded SAT The SAT Subject Tests were created to act as complements to the SAT Whereas the SAT tests your critical thinking skills by asking math and verbal questions the SAT Subject Tests examine your knowledge of a particular subject such as Physics U S History or Biology The SAT takes three hours the Subject Tests take only one hour each

Fundamentals of Sound with Applications to Speech and Hearing William J. Mullin, 2003 Presents a clear and precise treatment of the physics of sound while using a level of math suitable for readers in the speech language hearing and health sciences Simple mathematics graphics and qualitative descriptions are demonstrated to explain wave concepts spectrograms intensity and decibels concepts are applied to the physics of speech and hearing providing students with an understanding of the science of sound *Introduction to Modern Physics* Floyd Karker Richtmyer, 1928 **The Wire** , 1998 *The Software Encyclopedia 2000* Bowker Editorial Staff, 2000-05

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