

Physical Science—Waves and Sound

- I. Waves and Energy
 - a. Wave terminology
 - i. Wave—a periodic back-and-forth motion or oscillation that transmits energy
 - ii. Medium—the substance through which a wave transfers its energy
 - iii. Types of waves
 - iv. Transverse waves—waves which oscillate at right angles to the direction of wave travel
 1. Crests-- High points in a wave
 2. Troughs—Low points in a wave
 - v. Longitudinal waves—particles oscillate in the direction of the wave travel
 1. Compression pulse—area in which particles are compressed together
 2. Rarefaction pulse—area in which particles are spread out
 - b. Wave attributes
 - i. Wavelength—(λ) the length of a single wave
 - ii. Amplitude—a measure of how tall a wave is or how compressed it is; this determines how much energy a wave has or how strong it is
 - iii. Frequency—the number of waves that pass a fixed point in a certain amount of time; the SI unit for frequency is the *hertz* (frequency=number of wave cycles/t)
 - iv. Speed—the rate of speed at which a wave travels (velocity=wavelength x frequency)
 - c. Wave behavior
 - i. Reflection—a change in direction that occurs when waves bounce off of an object
 - ii. Refraction—the “bending” of a wave due entering a different medium
 - iii. Diffraction—the spreading out of a wave after it passes through a narrow opening
 - iv. Interference—the reinforcement or cancellation that occurs when two or more waves collide with each other
 1. Constructive
 2. Destructive

Noise-canceling technology:

- Phones and computers: <http://www.economist.com/node/15495918>
- Cars: <http://www.nydailynews.com/autos/ford-honda-noise-canceling-tech-new-cars-bmw-porsche-bring-noise-boosting-features-article-1.1168670>

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L Darling-Hammond



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Chemistry Botany Zoology Appendix **Understanding Physics** David C. Cassidy, Gerald Holton, F. James

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Nursing Research - Susan K Grove, Assistant Professor of Political Science Nancy Burns, PhD RN Fcn Faan, Jennifer Gray, 2010-09 Learning activities for each textbook chapter review and reinforce key concepts and offer application to evidence based clinical practice Time tested and innovative exercises promote in depth learning with Introductions Key Terms exercises Key Ideas exercises Making Connections exercises crossword puzzles Exercises in Critical Appraisal and Going Beyond exercises Hands on practice with three published research studies allows you to apply your knowledge and gain practice in working with the kinds of articles you will use to build an evidence based practice Answer key for all activities lets you check your understanding and learn from your mistakes An expanded focus on evidence based practice and new case studies shows the value of understanding the research process and applying it for an evidence based nursing practice Three new full text research articles serve as the basis for hands on practice in each chapter *Resources for Teaching Middle School Science* Smithsonian Institution, National Academy of Engineering, National Science Resources Center of the National Academy of Sciences, Institute of Medicine, 1998-04-30 With age appropriate inquiry centered curriculum materials and sound teaching practices middle school science can capture the interest and energy of adolescent students and expand their understanding of the world around them Resources for Teaching Middle School Science developed by the National Science

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