

## Physical Science—Waves and Sound

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- 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—( $\lambda$ ) 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>

# Physical Science Chapter 11 Study Guide

**Richard O. Straub**



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
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