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Sound is a longitudinal wave, formed of pressure fluctuations in air. At sea level at 20 C, sound travels at 343 m/s. All sound waves will travel at this speed relative to the rest frame of the air. $v = f\lambda$
 A low frequency means a longer wavelength. Sound can travel at different speeds in other materials. It travels
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 Waves are related to vibrations, and most waves are caused by vibrations. Sound waves are created by vibrating objects such as a guitar string or vibrations from a person's vocal cords. Electromagnetic waves may be caused by vibrating charged particles. In mechanical waves, particles in the medium vibrate as the wave passes through them.
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 Sound waves must be transmitted through some kind of medium whether it is a solid, liquid, or gas. Light does not need a medium to propagate. Thus, in the vacuum of outer space, you can see but not hear. In this unit, you will learn many interesting facts about waves, sound, and light. (Prentice Hall Conceptual

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 Bending of sound or any wave caused by a difference in wave speeds. Forced vibration. The setting up of vibrations in an object by a vibrating force.
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sound wave move faster in seawater or fresh water, if both the sea water and fresh water are at the same temperature and the sound wave moves near the surface? ($\rho_w \approx 1000 \text{ kg m}^{-3}$, $\rho_s \approx 1030 \text{ kg m}^{-3}$, $B_w = 2.15 \times 10^9 \text{ Pa}$, ($\rho_w \approx 1000 \text{ kg m}^{-3}$, $\rho_s \approx 1030 \text{ kg m}^{-3}$, $B_w = 2.15 \times 10^9 \text{ Pa}$, $B_s = 2.34 \times 10^9 \text{ Pa}$) $B_s = 2.34 \times 10^9 \text{ Pa}$)

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