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 These so-called T-waves were among the earliest sounds in nature. Eventually the scientists traced the source to underwater volcanoes, whose rising columns of bubbles resonated like organ pipes. What is the wavelength of a typical T-wave whose frequency is 7 Hz? (The speed of sound in seawater is 1530 m/s.)
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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 Physics-Paul Hewitt)
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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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 Does a 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? ($\rho_w \approx 1000 \text{ kg m}^{-3}$, $\rho_s \approx 1030 \text{ kg m}^{-3}$, $B_w = 2.15 \times 10^9 \text{ Pa}$, ($\rho_w \approx 1000 \text{ kg m}^{-3}$, $\rho_s \approx 1030 \text{ kg m}^{-3}$, $B_w = 2.15 \times 10^9 \text{ Pa}$, $B_s = 2.34 \times 10^9 \text{ Pa}$)
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 This Physics Tutorial discusses the nature of sound, its characteristic behaviors, and its association with the operation of musical instruments. Attention is given to both the purely conceptual aspect of sound waves and to the mathematical treatment of the same topic.
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 We can thus expect that in mechanical waves such as water waves, sound waves, or waves on a string, the wave energy will gradually be converted into heat. This is referred to as absorption. The reduction in the wave's energy can also be described as a reduction in amplitude, the relationship between them being, as with a vibrating object, $\propto A^2$).
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