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| **Across****5.** Waves in which the particles of the medium vibrate back and forth along the path that the wave travels.**11.** In a body of water, is an example of a combination of both transverse and longitudinal waves.**13.** Sounds with frequencies that are higher than 20,000HZ. **16.** The result of two or more waves overlapping.**17.** The distance between any adjacent crests or compressions in a series of waves.**18.** A solid, liquid or gas that is vibrated.**20.** When an object vibrates at or near the resonant frequency of the second object causes the second object to vibrate. | **Down****1.** Maximum distance the wave vibrates from the rest position.**2.** Matter through which visible light is easily transmitted.**3.** The bending of waves around a barrier or through an opening.**4.** Waves in which the particles of the medium vibrate with an up and down motion.**6.** The speed at which a wave travels.**7.** The apparent change in the frequency caused by the motion of either the listener or the source of the sound.**8.** Occurs when a wave bounces back after striking an object.**9.** The transfer of energy carried by light waves to particles of matter.**10.** The emission of energy in the form of EM waves.**12.** A reflected sound wave.**14.** The number of waves produced in a given amount of time.**15.** High energy electromagnet waves that are between ultraviolet light and gamma rays in the electromagnetic spectrum.**19.** Any disturbance that transmits energy through matter or space. |