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waves

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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. |