Waves Vocabulary

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| **Across**  **3.** synchronized oscillations of electric and magnetic fields that propagate at the speed of light through a vacuum  **4.** the maximum extent of a vibration or oscillation, measured from the position of equilibrium  **7.** a wave in which the particles of the medium move perpendicularly to the direction the wave is traveling  **8.** the number of waves produced in a certain amount of time  **10.** a physical environment in which phenomena occur  **14.** reach the top of (something such as a hill or wave)  **15.** a periodic disturbance in a solid, liquid, or gas as energy is transmitted through a medium  **16.** a wave vibrating in the direction of propagation  **17.** when the crest of one wave meets the trough of another, and the result is a lower total amplitude  **19.** the distance between successive crests of a wave, especially points in a sound wave or electromagnetic wave  **20.** the throwing back by a body or surface of light, heat, or sound without absorbing it | **Down**  **1.** when two waves meet in such a way that their crests line up together  **2.** diminution in the density of something, especially air or a gas  **5.** the lowest point the medium sinks to  **6.** a wave that is an oscillation of matter, and therefore transfers energy through a medium.  **9.** the action of compressing or being compressed  **11.** a sound or series of sounds caused by the reflection of sound waves from a surface back to the listener  **12.** the speed at which a wave travels  **13.** the process by which a beam of light or other system of waves is spread out as a result of passing through a narrow aperture or across an edge, typically accompanied by interference between the wave forms produced  **18.** change in direction of propagation of any wave as a result of its traveling at different speeds at different points along the wave front |