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 |