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Waves unit

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| **Across**  **3.** maximum displacement from rest position ; shows the amount of energy  **5.** occurs when a wave bounces off a surface that it cannot pass through; upside down  **12.** a change in the direction of a wave when the wave finds an obstacles or an edge , such as an opening  **14.** A disturbance that transfers energy from place to place  **16.** highest point of a wave  **17.** waves caused by vibrations that are transmitted through matter. example of longitudinal  **18.** how fast an object moves  **19.** the time it takes for one cycle  **20.** the part of a longitudinal wave where the particles of the medium are close together | **Down**  **1.** the part of longitudinal wave where the particles of the medium are far apart  **2.** Part of the Em spectrum . Electromagnetic radiation  **4.** material that carries waves ; solid ,liquid and gas  **6.** the distance between one crest or trough of a wave and next  **7.** A wave in which the particles vibrate at right angles to the direction of wave  **8.** a wave that require a medium to travel  **9.** waves of energy traveling through rock  **10.** A wave in which the particles move parallel to the path of the wave  **11.** electromagnetic waves used for communication on computers , phones ,etc.  **13.** the number of complete waves that pass a given point in a certain amount of time  **15.** Lowest point of a wave |