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8th Grade Physical Science Crossword

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| **Across**  **5.** a wave that moves a medium in a direction parallel to the direction in which the wave travels; Ex: sound waves  **11.** part of a longitudinal wave where the particles of the medium are far apart  **12.** a system that uses reflected radio waves to detect objects and to measure their distance and speed  **14.** part of a longitudinal wave where the particles of the medium are close together  **16.** electromagnetic waves with wavelengths shorter than radio waves, but longer than visible light  **17.** electromagnetic waves that are visible to the human eye  **18.** radio waves with the shortest wavelengths and highest frequencies  **19.** describes an object that can be seen because it gives off its own light  **20.** electromagnetic waves with wavelengths shorter than visible light, but longer than x-rays | **Down**  **1.** describes an object that can be seen because it reflects light from an outside source  **2.** a transverse wave that transmits electrical and magnetic energy through space at the speed of light  **3.** the transfer of energy through space in the form of waves  **4.** a wave the moves the medium in a direction perpendicular to the direction in which the wave travels; Ex: water waves  **6.** a disturbance that transfers energy from place to place  **7.** the complete range of electromagnetic waves placed in order of increasing frequency  **8.** electromagnetic waves with the shortest wavelengths and the highest frequencies  **9.** an image that shows regions of different temperatures in different colors  **10.** electromagnetic waves with wavelengths shorter than ultraviolet rays, but longer than gamma rays  **13.** a wave that requires a medium through which to travel  **15.** an instrument used to view the different colors of light produced by a source of light |