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7th Grade Science Vocabulary Crossword Puzzle

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| **Across**  **1.** A wave that is an oscillation of matter, and therefore transfers energy through a medium  **3.** A wave vibrating in the direction of propagation  **5.** An organism that consumes producers  **6.** A material through which electric current can pass  **10.** A hierarchical series of organisms each dependent on the next as a source of food  **13.** The branch of biology that deals with the relations of organisms to one another and to their physical surroundings  **15.** Not able to be seen through; not transparent  **16.** A substance that does not readily allow the passage of heat or sound  **17.** Any living component that affects the population of another organism, or the environment  **19.** An organism, especially a soil bacterium, fungus, or invertebrate, that decomposes organic material  **22.** Allowing light, but not detailed images, to pass through; semitransparent  **23.** How power is transported in  **25.** The emission of energy as electromagnetic waves or as moving subatomic particles, especially high-energy particles that cause ionization  **26.** A system of interlocking and interdependent food chains  **28.** The transfer of heat through fluids (gases or liquids) from a warmer spot to a cooler spot  **29.** One of the waves that are propagated by simultaneous periodic variations of electric and magnetic field intensity and that include radio waves, infrared, visible light, ultraviolet, X-rays, and gamma rays  **30.** The change of energy from one form to another  **31.** The range of wavelengths or frequencies over which electromagnetic radiation extends | **Down**  **2.** A variable whose variation does not depend on that of another  **4.** States that energy can neither be created nor destroyed; rather, it transforms from one form to another  **7.** A wave vibrating at right angles to the direction of its propagation  **8.** The process by which heat or electricity is directly transmitted through a substance when there is a difference of temperature or of electrical potential between adjoining regions, without movement of the material  **9.** States that matter is composed of a large number of small particles—individual atoms or molecules—that are in constant motion  **11.** The knowledge or source of knowledge acquired by means of the senses, particularly by observation and experimentation  **12.** A variable whose value depends on that of another  **14.** A nonliving condition or thing, as climate or habitat, that influences or affects an ecosystem and the organisms in it they can determine which species of organisms will survive in a given environment  **18.** Studying something carefully in order to learn  **20.** Allowing light to pass through so that objects behind can be distinctly seen  **21.** The fact or phenomenon of light, radio waves, etc., being deflected in passing obliquely through the interface between one medium and another or through a medium of varying density  **24.** The sum of kinetic and potential energy in an object that is used to do work Mechanical  **27.** An autotrophic organism that serves as a source of food for other organisms in a food chain |