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Science Definitions

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| **Across**  **3.** A model that shows light as a straight line or ray that shows the path as it travels including reflection off mirrors or refracting through lenses  **4.** Old model that light was fast moving tiny particles eventually absorbed by the eye  **8.** The number or repetitive motions, or oscillations, that occur in a given time  **9.** When light waves strike an object and bounce off  **11.** The ray that bounces off a surface  **15.** the ray that approaches a surface  **16.** The capacity to apply a force over a distance  **17.** angle between incident ray and the normal line  **19.** A type of wave that travels trough empty space and transfers energy from one place to another  **20.** lowest point in a wave  **21.** the matter waves travel through  **22.** Light passes through freely  **23.** A height of a wave crest or the depth of a wave trough, as measured from its rest position  **25.** Allows some light to pass through but not all  **27.** The level of water that has no waves  **28.** occurs when light is blocked in specific areas  **29.** a property of a material which light passes through (The more dense the slower the light goes through)  **30.** incident angle must equal the reflected angle | **Down**  **1.** imaginary line perpendicular to the surface being struck by light  **2.** Allows no light to pass through  **5.** A wave you can see  **6.** Push or pull on an object  **7.** Pictures light travelling as a wave  **10.** The bending/changing direction of a wave as it passes from one material to another  **12.** angle between the reflected ray and the normal line  **13.** Range of colors of frequencies of visible light  **14.** the method frequency is measured in  **18.** Has the highest energy and frequency and the shortest wavelength portion of the electromagnetic spectrum  **24.** Illusion formed by refraction of light through air  **26.** An object (eg. mirror) that curves inward |