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Science - Light & Sound

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| **Across**  **3.** the bouncing of light off an object  **4.** reflecting or absorbing all light; no image can be seen  **6.** the measure of the amount of sound energy reaching your ears  **8.** a solid object that bends light; not a lens  **9.** quickly moving areas of high and low pressure  **11.** the change in frequency & pitch as a source of sound waves moving towards you or away you  **15.** the number of times an object vibrates per second  **17.** the bending of the path of light when it moves from one kind of matter to another  **18.** a vibration you can hear  **20.** the measure of how high or low the sound is  **21.** the stopping of light when it his a wall or other opaque  **22.** a sound reflection  **23.** allowing some light to pass through; blurry image can be seen | **Down**  **1.** the greatest distance from the top of a sound wave to the bottom of the wave, the more energy a wave carries, the greater the amplitude  **2.** the part of the sound wave where the molecules are close together  **5.** the speed t which a sound travels  **7.** the distance in a straight line from one place on a ripple to the same place on the next ripple  **10.** the range of light energy that people can see  **12.** the part of a sound wave where molecules are spread apart  **13.** the area of a sound wave where the air is pushed together  **14.** allows most light to pass through; clear image can be seen  **16.** a large, quick air pressure increase followed by a large quick decrease, an object moving faster than the speed of sound does this, so we hear a large BOOM when it happens  **19.** a unit for measuring loudness |