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Electricity and Magnetism

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| **Across**  **3.** Charges that don't move (neutral)  **4.** Imbalance of electrons on an object creates  **8.** Electrons cannot move easily through this material  **11.** North and South Pole  **23.** Is a device that transforms mechanical energy into electrical energy  **24.** Electrons  **25.** Pole that points to the North Pole  **26.** Electrons can move easily through this material  **28.** Source of power  **29.** Attracted or repelled force exerted by all charged objects on each other  **30.** Energy changing forms | **Down**  **1.** The area where magnetic force is exerted  **2.** A core made of solid or laminated iron, or some other magnetic material which may contain very little iron.  **5.** The direction in which the north end of a compass needle points  **6.** Go farther (opposite)  **7.** The measurement for voltage  **9.** The North Pole magnet  **10.** South Pole magnet  **12.** A circuit with more than one path for extricate current to flow  **13.** A circuit with only one path for electric current to flow  **14.** Surrounds every electric charge & exerts force on other electric charges  **15.** The flow of electric charge  **16.** Protons  **17.** iron core that has copper coils wrapped around it and electric current  **18.** Attracting each other  **19.** An object that attracts or repels certain objects  **20.** the area where magnetic force is exerted  **21.** Come close  **22.** Pole of the magnet that points to South Pole  **27.** A machine that converts energy |