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| **Across**  **2.** Rate at which electrical energy is converted into other forms of energy  **7.** states that the current in circuit equals the voltage divided by the resistance in the circuit  **11.** light display that occurs when charged particles trapped in the magnetosphere collide with earth's atmosphere above the poles.  **14.** An material in which electrons cannot move easily  **18.** group of atoms whose fields point in the same direction  **20.** surrounds every electric charge and exerts forces on other electric charges  **21.** the flow of electric charge;measured in amperes  **22.** imbalance of electric charge on an object  **23.** positively or negatively charged atom  **25.** attractive or repulsive force exerted by all charged objects on each other | **Down**  **1.** circuit that has only one path for electric current to flow  **3.** device that uses a magnetic field to turn kinetic energy into electric energy  **4.** a measure of how difficult it is for the electrons to flow through the materials  **5.** Circuit that has more than one path for electric current to follow  **6.** electric current that changes in direction repeatedly  **8.** electric current that flows only in one direction  **9.** device that used to increase and decrease the voltage  **10.** a magnet created by wrapping current carrying wire around an iron core  **12.** rapid movement of excess charge from one place to another  **13.** a measure of the amount of the electrical potential energy an electric flowing in a circuit can gain  **15.** material in which electrons can flow easily  **16.** surrounds a magnet and exerts a magnetic force on other magnets  **17.** region of space affected by earth's magnetic field  **19.** closed conducting loop in which electric energy can flow easily  **24.** device that transforms electrical energy into kinetic energy |