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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 |