

1. Alternating Current	A flow of electric charge that regularly reverses its direction.	23. Galvanometer	A device that uses an electromagnet to detect small amounts of current
2. Battery	A device that converts chemical energy to electrical energy	24. Generator	A device that converts mechanical energy into electrical energy by rotating a coil of wire in a magnetic field.
3. Capacitor	An electrical device used to store electrical charge	25. Grounding	The transfer of excess charge through a conductor to Earth
4. Circuit Breaker	A switch that opens when current in a circuit is too high.	26. Induction	The transfer of charge without contact between materials
5. Closed Circuit	A complete circuit through which electricity flows; all switches are closed.	27. Law of Conservation of Charge	The total charge in an isolated system is constant.
6. Commutator	A device that controls the direction of the flow of current through an electric motor	28. Load	A device that uses electrical energy to do work
7. Direct Current	An electric current that flows in one direction steadily	29. Magnetic Domain	A region that has a very large number of atoms with aligned magnetic fields
8. Electrical Conductor	A material in which charges can move freely	30. Magnetic Field	The region around a magnet where the magnetic force is exerted
9. Electrical Current	A flow of electric charge.	31. Magnetic Force	The force a magnet exerts on another magnet, on iron or a similar metal, or on moving charges
10. Electrical Insulator	A material in which charges cannot move freely	32. Magnetic Pole	The ends of a magnetic object, where the magnetic force is strongest.
11. Electric Charge	A property that causes subatomic particles such as protons and electrons to attract or repel each other.	33. Magnetosphere	The area surrounding Earth that is influenced by Earth's magnetic field
12. Electric Circuit	A complete, unbroken path through which electric charges can flow	34. Ohm's Law	The voltage in a circuit equals the product of the current and the resistance. $V=IR$
13. Electric Field	The effect an electric charge has on other charges in the space around it	35. Open Circuit	An incomplete electrical circuit in which no current flows
14. Electric Force	The force of attraction or repulsion between electrically charged objects	36. Parallel Circuit	An electric circuit with two or more paths through which charge can flow
15. Electric Motor	A device that uses an electromagnet to turn an axle	37. Potential Difference	a.k.a. Voltage. The difference in electrical potential energy between two places in an electrical field.
16. Electric Power	The rate at which electrical energy is converted to another form of energy	38. Resistance	A material's opposition to the flow of electric current.
17. Electromagnet	A solenoid with a ferromagnetic core	39. Resistor	An electrical device that resists the flow of electrical current
18. Electromagnetic Force	The force that acts between positive and negative charges. It holds atoms together into molecules.	40. Series Circuit	An electric circuit with only one path through which charge can flow
19. Electromagnetic Induction	The process of generating a current by moving an electrical conductor relative to a magnetic field.	41. Short Circuit	A connection that allows current to take an unintended path (a path of less resistance)
20. Faraday's Law	A voltage is induced in a conductor by a changing magnetic field.	42. Solenoid	A coil of current-carrying wire that produces a magnetic field
21. Ferromagnetic Material	A material that can be magnetized because it contains magnetic domains	43. Static Electricity	A buildup of charges on an object.
22. Fuse	A device that prevents current overload in a circuit		

44. Superconductor	A material that has almost zero resistance when it is cooled to low temperatures
45. Switch	A device for making, breaking, or changing the connections in an electrical circuit
46. Transformer	A device that increases or decreases the voltage and current of two linked AC circuits.
47. Turbine	A device with fanlike blades that turn when pushed.