

1. alternating current (AC)	an electric current that reverses direction periodically	22. electromagnet	a number of coils of wire wrapped around a soft metal core which affects a compass and attracts iron objects when connected to a source of current
2. ammeter	a meter used to measure electric current	23. electromotive force (emf)	the energy per unit charge supplied by a source of electric current; it is equal to the open circuit potential difference across a cell or battery
3. ampere (A)	the unit of the fundamental quantity of electric current; 1 ampere = 1 coulomb per second	24. electron	a negatively charged subatomic particle found in all neutral atoms
4. circuit breaker	a device used to stop electric current when there is a fault in an electric circuit	25. field	a region in which a physical force is operating; a region of influence
5. conductor	a material that allows electric charge to flow easily through it	26. fuse	a device consisting of a wire that melts when a predetermined current flows through it
6. conventional current	electric charge that flows from positive to negative	27. induction	the process of charging one object by bringing it near another charged object
7. coulomb	the unit of electric charge equal to one ampere second	28. insulator	a material that electric charge finds very difficult to move through
8. dipole	two small equal but opposite charges separated by a distance		
9. direct current (DC)	current that flows in one direction only		
10. drift velocity	the average speed of movement in one direction of charge carriers in a conductor		
11. earth connection	the connection to the earth of an appliance to protect a user from electrocution		
12. electric charge	the property of matter which allows it to attract opposite charges and repel similar charges; can be positive or negative		
13. electric circuit	consists of a source of electric energy, a conduction pathway and a device that uses electric energy		
14. electric current	the rate of flow of electric charge past any point in a circuit		
15. electric field	the region in which a charge experiences an electric force		
16. electric field direction	the direction in which a positive charge would experience a force if placed in the field		
17. electric field strength	the force per unit positive charge acting on a charge in an electric field		
18. electric generator	a device used to convert mechanical energy into electrical energy		
19. electric potential difference (V)	the difference in electric potential energy per unit charge		
20. electric potential energy	the energy stored in a charge placed in an electric field		
21. electric shock	where current flows through a person		