kilowatt-hour	the energy used by a 1 kilowatt appliance operating for 1 hour
Kirchoff's first (current) law	the sum of the currents into any point in a circuit is equal to the sum of the currents out of that point
Kirchoff's second (voltage) law	the sum of the potential drops around a circuit is equal to the sum of the emfs
line of force	a line drawn tangential to the direction of the force on a charge (or mass or magnet) at each point
magnetic field	a region around a magnet where a magnetic force would be felt

magnetic poles	where the magnetism is concentrated in a magnet; always come in pairs
magnetism	the property of certain materials that allows them to attract iron objects
motor	a device that changes electrical energy into mechanical (kinetic) energy
negative charge	charge that will repel an electron
neutral	the state of no overall electric charge

Oersted's experiment	an experiment that showed that a current carrying conductor produces a magnetic field around it
Ohm	the SI unit of electrical resistance; equal to that resistance which will allow a current of one ampere to flow when there is a potential difference of one volt
Ohm's law	the ratio of the applied voltage across a conductor to the current through it is a constant; R=V/I
parallel circuit	a circuit containing more than one pathway for the current
positive charge	charge that will attract a negative charge; the type of charge found on protons

potential difference (V)	a measure of the work done per unit charge as a charge is moved between two points in an electric field
potential energy	energy due to position or configuration; stored energy
power (P)	the time ratio of doing work; P=VI
resistance	the property of a material that makes it difficult for electric charge to flow; R=V/I
right-hand grip rule	when the thumb of the right hand points in the direction of conventional current, the fingers curl in the direction of the magnetic field

safety devices	fuses, circuit breakers, earth-leakage devices that protect users from electrocution
series circuit	an electric circuit which has only one pathway
solenoid	a coil of wire that acts like a bar magnet when current flows through it
static electricity	electric charges at rest
voltage (V)	another name for potential difference

voltmeter	a meter used to measure the potential difference between two points
volt (V)	the SI unit of potential difference; the potential difference between two points is one volt if one joule of work is done to move one coulomb of charge between the two points
watt (W)	one watt is the power developed when 1 joule of energy is transformed in 1 second