Current = The rate of flow of charge

Charge = A property of particles where it flows past a point when there is current of 1A

Power = The rate of energy transfer per unit time

Convectional current = Current from a positive terminal towards a negative one

Electrolytes = Liquids that can carry an electric current

Number density = Number of free electrons per cubic metre of material

Mean drift velocity =The average velocity of the electrons as they travel down the wire, colliding with positive metal ions

Potential difference = Measure of the transfer of energy by charge carriers

Electromotive Force = Energy transferred from chemical energy to electrical energy per unit charge

Thermionic emission = Emission of electrons through the action of heat

Resistance = The ratio between voltage and current

Resistivity = Product of the resistance of a component and its cross-sectional area, divided by length, at a given temperature of a material

Series circuit = A circuit with only one path for current, from one terminal to another

Parallel circuit = A circuit that provides many paths for current

Potential divider circuits = Circuits that can vary the p.d. across an output when connected to an output

Potentiometer = Variable resistor that can give a continuously variable output voltage

Ohm's law = A Metallic conductor kept at a constant temperature, the current in the wire is directly proportional to the potential difference across it

Kirchhoff's 1st law = Sum of currents into point is= to sum currents out that point, w/ conservation charge Kirchhoff's 2nd law = Sum of EMF is= to sum pd.s. around a closed loop, w/ conservation energy

$$\begin{aligned} & \mathcal{E} = 1.6 \times 10^{10} \mathcal{C} \\ & \mathcal{I} = 1.6 \times 10^{10} \mathcal{C} \\ &$$