

Potential difference causes a current to flow.

If you touch something with a high p.d., current

Fixed resistance reduces resistor current Changeable resistance variable resistor reduces current **Emits light LED Emits light** lamp Breaks circuit when fuse current too high Measures potential voltmeter difference Measures current ammeter equation Resistance decreases as thermistor temperature increases Power supplies provide a p.d. Current will P = IVPower= current x potential difference always flow from a high p.d. to a low p.d. Resistance decreases as  $P = I^2 R$ Power = current<sup>2</sup> x resistance LDR light intensity increases **Electric shocks** E = PtEnergy transferred = power x time The number of electrons. Measured in will pass through you into the ground (0V p.d.) = charge x potential Energy charge E = Q Vcoulombs (C) transferred difference Flow of charge (the speed of electrons). current Measured in amps (A) Knowledge required The amount an object reduces the current. Energy per electron. potential resistance Measured in ohms  $(\Omega)$ Measured in volts (V) difference from previous topic

Breaks circuit; stopping

Completes circuit; allows

Store of chemical energy

the current

current to flow

Two or more cells

flow one way

Only allows current to

batterv

diode