

Definitions

What is current ? What are the units? How is it measured?	Current is the rate of flow of charge (measured in amperes, A), it is measured using an ammeter.
What is potential difference ? What are the units? How is it measured?	Potential difference is the energy per unit charge processed (in volts, V), it is measured using a voltmeter connected in parallel across the component.
What is a series circuit ?	There is only one path for the current to flow. The circuit diagram is drawn with only one loop.
What is a parallel circuit ?	More than one path for the current to flow. The circuit diagram is drawn with branch components.
What is the difference between direct current (DC) and alternating current (AC) ?	With direct current, the electrons flow in one direction only. With an alternating current, the electrons are constantly changing direction.

Equations

Quantity	Word Equation (units)	Symbol Equation
Charge flow	Charge flow (Q) = current (I) x time (t)	$Q = I \times t$
Potential difference	Potential difference (V) = current (I) x resistance (R)	$V = I \times R$
Electrical power	Power (P) = potential difference (V) x current (I)	$P = V \times I$
Electrical power	Power (P) = (current) ² x resistance	$P = I^2 \times R$
Energy transferred	Energy transferred (E) = power (P) x time (t)	$E = P \times t$
Energy transferred	Energy transferred (E) = charge flow (Q) x potential difference (V)	$E = Q \times V$

Circuit symbols

	switch (open)		lamp
	switch (closed)		resistor
	cell		voltmeter
	battery		ammeter
	diode		thermistor
	variable resistor		LDR

IV (current - potential difference) graphs that are typical for different components



Ohmic resistor

Current directly proportional to p.d.
Resistance is constant



Bulb

When the p.d. increases, the filament gets hotter and increases its resistance. Increased potential difference makes no difference to the resistance (increased)



Diode

Current only starts from certain p.d. almost no current in reverse direction (higher after resistance)

Comparing current and potential difference in series and parallel

	Series	Parallel
Current	same	different
Potential difference	different	same

Resistors and resistance

How does resistance affect current?	The greater the resistance, the lower the current.
How can the resistance of a component in a circuit be determined?	Use a circuit to measure the current through, and potential difference across the component. Calculate the resistance by using the equation.
How does the resistance of a light dependent resistor (LDR) change with the intensity of light shone on it?	The resistance of an LDR decreases as light intensity increases.
How does the resistance of a thermistor change with temperature?	The resistance of a thermistor decreases with temperature.

1-Fix-Flag

Wire	Colour	Function
Earth	Green and yellow stripes	Provides a safe route for electrons. It has an extra insulator coating.
Live	Brown	Carries 230V from the supply to the appliance.
Neutral	Blue	Carries 0V - completes the circuit after the current has been 'used'.



Transformers

	Primary	Secondary
Step up	Decreases	Increases
Step down	Increases	Decreases

Static Electricity

When two different insulators are rubbed together, electrons may transfer from one material to another, causing them to become charged.



A rod and cloth can demonstrate static electricity.

Electrostatic forces

When forces do charged objects exert on each other?

Repels charges of the same sign, attracts charges of opposite sign.

What is an electric field?

The space around a charged object in which a force can be felt.

How does the strength of the electric field vary?

Decreases with distance from the object, stronger with greater charge.



The electric field around a positive charge.



The electric field around a negative charge.

Electricity

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