

Circuits and resistors

- **Current** = is the flow of charge/ electrons around the circuit. Current will only flow if there is a voltage. It is measured in amps
- **Voltage** = is the driving force that pushes the current around the circuit. It is measured in Volts
- **Resistance** = is anything in the circuit that reduces the current it is measured in ohms

What is resistance caused by

It is caused by collisions in a conduct.

When electron flows through a conductor they collide with atoms in the metal which causes resistance.

Collisions between the atoms causes them to vibrate.

Its this vibration that causes the temperature of the conductor to increase.

What is a variable resistor

It is a resistor whose resistance can be changed by twiddling a knob or something

They are great for controlling the current flowing through a circuit

Turn the resistor up the current drops

Turn the resistor down and the current goes up.

This is because their are huge coils of wire with a slider on them. The longer the wire the more resistance so less current.

They are used for controlling the speed of the motor and the brightness of bulbs.

Voltage current graph

The slope of a voltage current graph shows resistance

In normal resistors- The current through the resistor is proportional to voltage. Ohmic resistors have a constant resistance and so are straight lines

A filament lamp

As the current increases, the temperature of the filament increase and so the resistance increases. This is known as a non ohmic resistor.

Resistors in a parallel reduce the resistance in a circuit.

In a series circuit- The total resistance is just the sum of the individual resistance

But resistors connected in parallel provide more paths for the current to travel. So the total resistance of a parallel circuit is always less than that of the branch with the smallest resistance.

Potential dividers

Potential dividers consist of a pair of resistors. They divide the potential in a circuit so you can get outputs of different voltages.

What is an LDR

Ocr Gateway Physics P4 P5 P6 Revision

Claire Hutchinson



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