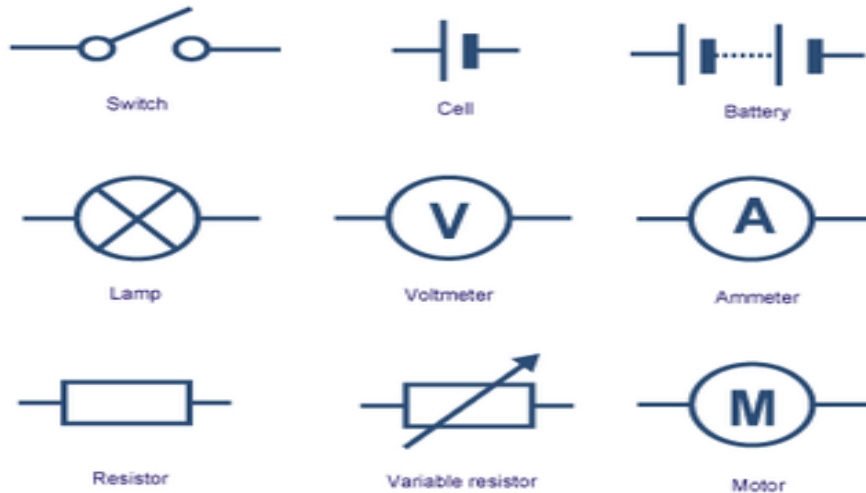


# Y7 - Knowledge organiser – 7.8 - Current & Voltage and Resistance



## Circuit symbols 1



## Conductors & Insulators 2

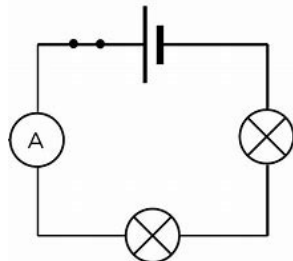
- **Electrical conductor:** a material that allows current to flow through it easily.
- Conductors have a low resistance.
- **Electrical insulator:** a material that does not allow current to flow through it easily.
- Insulators have a high resistance.

## Current 3

- **Current:** the movement of charged particles
- These charged particles are known as **electrons**.
- Measured using an **ammeter**.
- Measured in **amps, A**

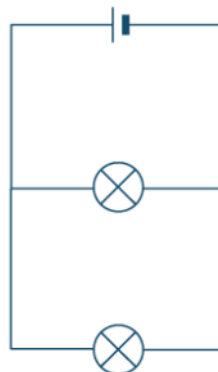
## Series Circuits 4

- Voltage is shared between each component
- Current is the same everywhere in the circuit.



## Parallel Circuits 5

- Voltage is the same across each different loop.
- Current is divided between loops in the circuit.



## Voltage 6

- **Potential difference (voltage):** the amount of energy shifted from the battery to the charges
- Measured using a **voltmeter**
- Measured in **volts, V**

## Resistance 7

- **Resistance:** Makes it difficult for charge to pass through
- Measured in **ohms, Ω**

