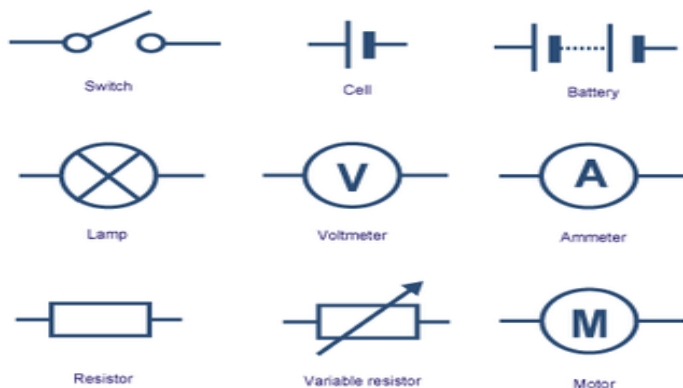


1) Circuit Symbols



2) Conductors & Insulators

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

3) Current – the movement of charged particles.

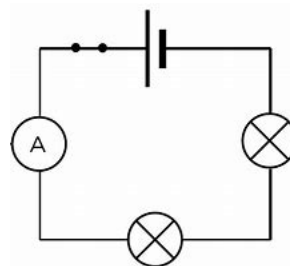
These charged particles are known as charges or electrons.

Current is measured using an ammeter, measured in amps.

4) Series Circuits

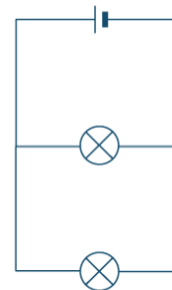
Series Circuits

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



5) Parallel Circuits

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



6) Voltage means potential difference

Voltage

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

7) Resistance

Resistance

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