

GRADE 12 ELECTRICITY AND MAGNETISM: ELECTRIC CIRCUITS

Current is the rate of flow of charge. In symbols: $I = \frac{Q}{t}$
 The amount of energy transformed per coulomb of charge is called the **potential difference**.

In symbols: $V = \frac{W}{Q}$

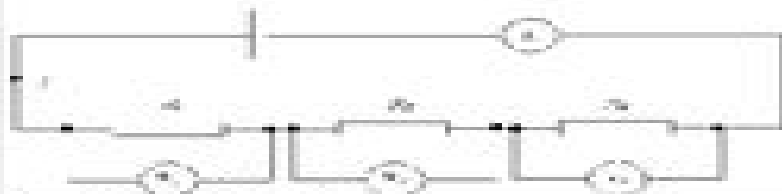
Ohm's Law: The current (I) through a conductor is directly proportional to the potential difference (V) across it, provided the temperature remains constant.

In symbols: $R = \frac{V}{I}$

Remember: $R = \frac{V}{I}$ the 'V' must be across R and the 'I' through R

Series Circuits

A series circuit is simply a circuit that has only one pathway. There are no branches in the circuit, and hence the electricity can only travel in one route.



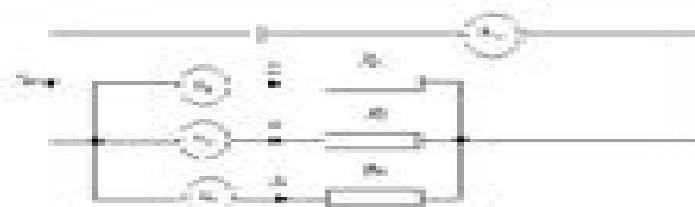
- $V_1 = V_2 = V_3 = V_B$
- The total potential difference (voltage) across all resistors will add up to the potential difference (voltage) of the power source, e.g. a battery.
- $I_1 = I_2 = I_3 = I_B$
- In a series circuit the current is the same at any particular point in the circuit. The current does not vary as it passes through each individual resistor.

$$R_{\text{total}} = R_1 + R_2 + R_3 + \dots$$

OR $R = \frac{V}{I}$

Parallel Circuits

Parallel circuits are circuits which have more than one branch, or pathway which charges can travel through.



- $V_{R1} = V_1 = V_2 = V_3 = V_B$
- The potential difference (voltage) in parallel circuits is actually the same for each branch, and equal to the potential difference (voltage) of the power source when the switch is closed.
- $I_{\text{tot}} = I_1 + I_2 + I_3$
- Current is divided between the various branches. The current in one branch will not be the same as in other branches (unless of course all the resistances are the same). The sum of the current in each individual branch will add up to give the total current of the circuit.

$$\frac{1}{R_{\text{total}}} = \frac{1}{R_1} + \frac{1}{R_2} + \frac{1}{R_3} + \dots$$

OR $R = \frac{V}{I}$

Internal resistance

A battery is said to produce an **emf** (electromotive force). EMF is a **potential difference (voltage)**

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Marcel A. Müller



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