

- Current (I) = Charge (Q) / Time (t)

- $I = \frac{Q}{t}$

- Electromotive force and potential difference

- $Emf = \frac{W}{Q}$

- $Pd. = \frac{W}{Q}$

- Ohm's law

- $V = IR ; I = \frac{V}{R} ; R = \frac{V}{I}$

- Electrical power

- $P = VI ; P = I^2R ; P = \frac{V^2}{R}$

- Electrical energy

- $E = IVt$

- Series Circuit

- $Total Resistance = R1 + R2 + R3 + ...$

- Parallel Circuit

- $\frac{1}{Total Resistance} = \frac{1}{R1} + \frac{1}{R2} + \frac{1}{R3} + ...$

- Potential divider

- $\frac{R1}{R2} = \frac{V1}{V2}$