

4.5 Potential Difference (P.D)

- Potential difference, or PD for short, is also known as voltage.
- Voltage is the amount of energy the cell gives the electrons it pushes out. Voltage is measured in volts (V) and is measured by a voltmeter (connected in parallel). If a cell has 1 Volt, it delivers 1 Joule of energy to each coulomb of charge (J/C).

$$\text{Voltage} = \frac{\text{Energy}}{\text{Charge}}$$

$$V = \frac{E}{C}$$

4.6 Resistance

$$\text{Resistance } (\Omega) = \frac{\text{Voltage}}{\text{Current}} = \frac{V}{I}$$

Factors affecting resistance:

- Length
 - $\Omega \propto L$
 - The electrons have to travel a longer length and thus encounter more resistance.
- Cross-sectional area
 - $\Omega \propto \frac{1}{A}$
 - More electrons can flow per unit time, increasing the current and therefore decreasing the resistance.
- Material
 - Better conductor = less resistance
- Current Voltage Character of an Ohmic Resistor and a Filament Lamp:



- Ohm's law states that voltage across a resistor is directly proportional to the current through it. This is only true if the temperature of the resistor or lamp remains constant.

4.7 Electrical Energy

- Electrical energy is transferred from the battery or power source to the circuit components then into the surroundings
- 1 Watt is 1J/s

$$\text{Electrical power} = \text{Voltage (V)} \times \text{Current (A)}$$

$$P = VI$$

$$\text{Electrical energy} = \text{Voltage (V)} \times \text{Current}$$

$$E = VIt$$

4.8 Series and Parallel Circuits

- The current at any point in a series circuit is the same
- The current splits at each branch in a parallel circuit so the total current is always greater than the current in one branch
- Combining resistors
 - In Series: $R_{\text{Total}} = R_1 + R_2$
 - In Parallel: $R_{\text{Total}} = \frac{1}{1/R_1 + 1/R_2}$
 - The combined resistance of 2 resistors in parallel is less than that of either resistor by itself and the current in the two resistors is greater in the source than in the individual resistors and is equal to the sum of the currents in all the resistors connected in parallel.
- Advantages of putting lamps in parallel are:
 - If one lamp breaks, the other still works
 - Each lamp gets maximum PD
- In series: PD across the supply = PD across all the components combined
- In parallel: Current across the source = sum of currents in the separate branches

4.9 Circuit Diagrams

Cell	
Battery of cells	
Or	
Power supply	
a.c. power supply	
Junction of conductors	
Lamp	
Fixed resistor	
Thermistor	
Variable Resistor	
Light dependent resistor	
Heater	

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Jianjun Gao



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