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).

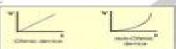
$$Voltage = \frac{Energy}{Charge}$$
$$V = \frac{E}{C}$$

4.6 Resistance

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

Factors affecting resistance:

- Length:
 - O D oc L
 - The electrons have to travel a longer length and thus encounter more resistance.
- Cross-sectional area
 - off of
 - o 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 11/s

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

 $P = VI$
Electrical energy = $Voltage(V) \times Current$
 $E = VIt$

4.8 Series and Parallel Circuits

- . The current at any point in a series circuit is the same
- The current solits at each branch in a parallel circuit so. the total current is always greater than the current in one branch
- Combining resistors

 - o In Series: $R_{Total}=R_1+R_2$ o In Parallel: $R_{Total}=\frac{1}{1/R_1+1/R_2}$
 - The combined resistance of 2 resistors in parallel is less than that of either resistor by itself and the current in the two resistors in 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:
 - o If one lamp breaks, the other still works
 - o 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 Diagr	ams
	Cell	
1	Battery of cells	
1	W 100	Or I I
ı	Power supply	-0 0
H		
T	a.c. power supply	-0 ~ 0-
I	Junction of conductors	
I	Lamp	
Г	Fixed resistor	
	Thermistor	-\$
	Variable Resistor	-4-
	Light dependent resistor	<u></u>
	Heater	-CIII)

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