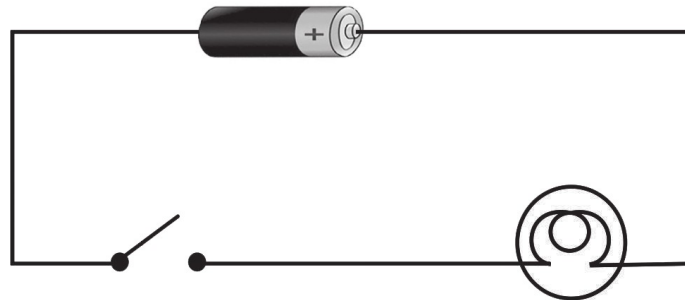


PHYSICS - X-PART-1 CLASS 01



Electric Circuit

* Can you draw a circuit diagram in which a switch, cell, and a bulb connected in series?



* What is the function of cell her?
- To maintain the potential difference.

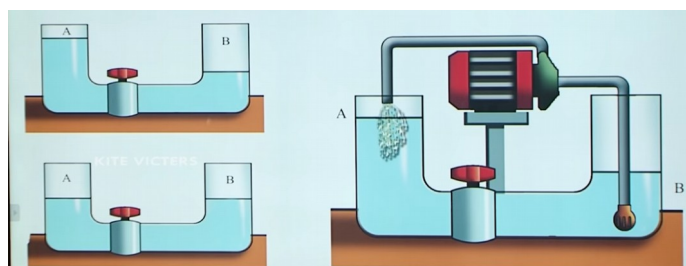
Electric Current

* Current or intensity of current is the quantity of charge that flows through a conductor in a circuit in one second.

Current (I) = Quantity of charge / Time taken
 $I = Q / t$

Unit of current = Unit of charge / Unit of time
= coulomb / second = C / s = ampere(A)

Potential difference




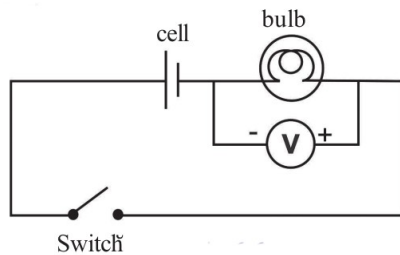
- * There should be a potential difference between two points of a conductor, if there is to be a flow of current between them.
- * Current flows from a point of high electric potential to a point of low electric potential.
- * The unit of potential difference is volt (V).
- * Voltmeter is the device to measure this.
- * If 1 joule of work is done to move one coulomb charge from one point to another, then the potential difference between the points is 1volt.

Electromotive force- emf


- * Electromotive force (emf) is the ability to maintain the potential difference between the ends of a conductor.
- * The emf of a cell is measured in the unit volt.

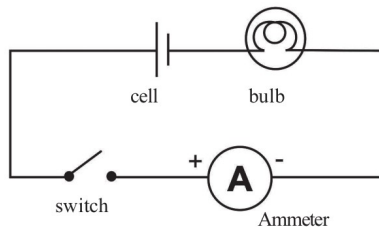
Voltmeter

- * Voltmeter is a device used to measure the potential difference and emf.
- * The symbol of voltmeter is 
- * Voltmeter is connected in parallel with a circuit.



Ammeter

- * Ammeter is a device used to measure the current in a circuit.
- * The symbol of ammeter is 
- * Ammeter should be connected in series in the circuit.



Assignment

- * Make a simple circuit with a cell, a bulb and a switch.