

CBSE Notes

Chapter XII

Electricity and Circuit

Electric Cell :

The energy or electricity provide to the source by electric cell . It is used in torch , wristwatch , alarm clock , transistor radiator , cameras etc.

Batteries :

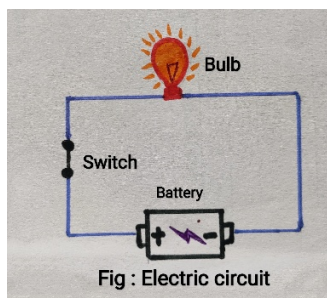
Two or more cell or group of connected cell known as battery . When one electric cell doesn't provide enough energy to the electric device than battery or more than one cell used for the electricity or energy .

Current :

Current means the flow of electricity .

Electric circuit :

- The path along which an electric current can flow is known as electric circuit.
- Electric current can flow when there is closed path for to travel along .
- When bulb connect with electric cell with wires , create a closed path , circuit through current can flow .
- When current flowing through the filament of bulb that make the bulb glow .
- Bulb connect with positive and negative terminal of the cell by wire where electric current flow and bulb glow.
- If any break of wires or filament of bulb , the circuit is broken and bulb does not glow.



Electric Switch :

A switch is a device or component of electric circuit which is used for making (closing) and breaking the flowing electric current toward the source.

- It has two terminal , to which wires can be connected .
- When the switch is on , a metal strip touch both the terminal to complete the electric path between them.
- When the switch is turned off , a metal strip move away opening the circuit at the terminal.

Electric conductor :

- Substance that allow an electric current to flow through them , or conduct electricity are called good conductor of electricity or conductor .
- Metal are good conductor of electricity.
- **Example** : silver , copper, aluminium , etc.

Insulator :

- Substance which has not conduct electricity are known as insulator or bad conductor of electricity .
- **Example** : Wood , plastic , rubber , paper etc.

Uses of conductor and insulator :

- Electric wire are usually made up of copper, aluminium .
- Silver is better conductor of electricity but it is not used daily basis because it too expensive metal.

- Insulator play an important role in electric circuit accessories or component like switch is made up of insulator material such as plastic , separates the metal terminal from each other.
- The electric wires used in the electric circuit covered by insulator material like plastic , rubber .