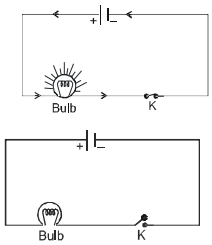
Class-VII(CANCEPT MAP)

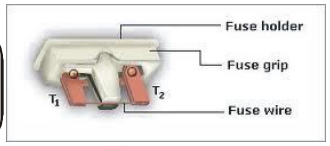
ELECTRICITY

- **Electrical circuit**
  - Close circuit
  - Open circuit

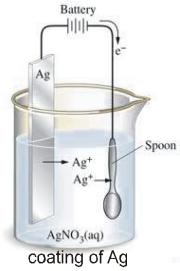


- **Electrical current: rate of flow of charges**
  - Formula: I=Q/t
    where Q= Electrical charge
    t=time
  - SI unit: Ampere

- **Effect of electric current**
  - Heating effect:The wire gets hot when an electric current passes through it. e.g.bulb,heater,fuse

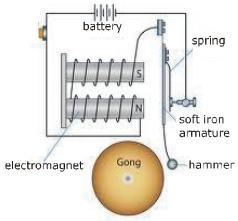


  - Chemical effect:
    Electroplating:The method of plating one metal object with another metal by means of electricity

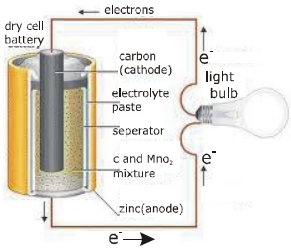


coating of Ag on spoon

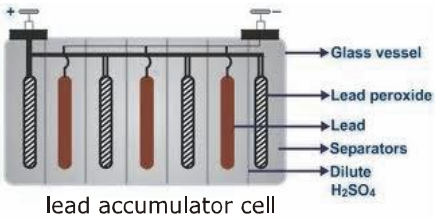
  - Magnetic effect:When an electric current passes through wire,it produces magnetic field around it. electromagnet,electrical bell



- **Electric cells**
  - Primary cells:which cannot be charged again and again are known as primary cells.e.g.dry cell



  - Secondary cells:Cells which are reusable and rechargablee.g.lead accumulator.



lead accumulator cell

- Danger of electricity:
  (i) Handling electrical appliances in wet places is very dangerous.
  (ii) Electricity could turn dangerous due to loose connections in switches, improper wiring, overloading:

- Safety measure:
  (i) The wires used in the circuit should be of good quality and with good insulation.
  (ii) Defective and damaged plugs, sockets and switches must be immediately replaced.