CLASS-VIII (CANCEPT MAP)

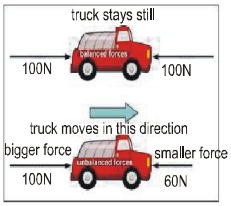
Force

A force is a pull or push or both.A force can not be seen but its effects can be felt and observed

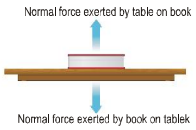
- **Formula**
  - F=m×a
    Where m= mass
    a=acceleration
- **Effect of force**
  - Force is applied to change the shape of an object

  - Force is applied to move an object from the position of rest

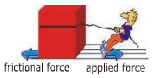
  - Force is applied to change the speed of motion
  - To change the direction of motion
- **Units of force**
  - CGS:-$gcms^{-2}$
  - SI:-$kgms^{-2}$ or newton
- **Types of force**
  - Balanced force
  - Unbalanced force



  - Contact force
    - Normal force

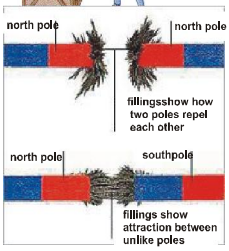


    - Frictional force



    - Muscular force

  - Non contact force
    - Magnetic force



    - Electrostatic force

    - Gravitational force
      - Weight:Gravitational pull on an object
        W=mg.
        Units:Kgf or newton
        - weight is measured by spring balance