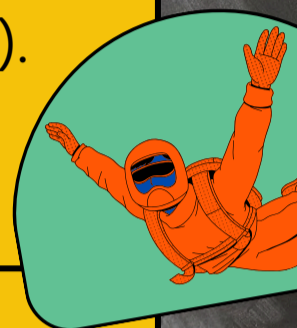


UNDERSTANDING FORCES

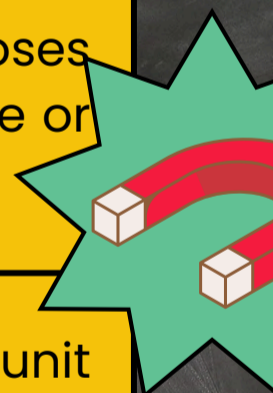
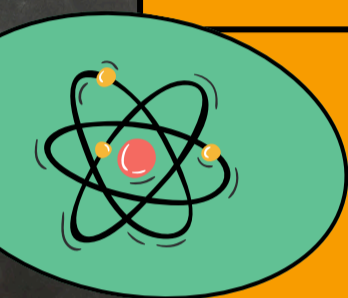
What is force?

- Force is a push or pull that can start, stop, or change the motion of an object.
- Measured in Newtons (N).



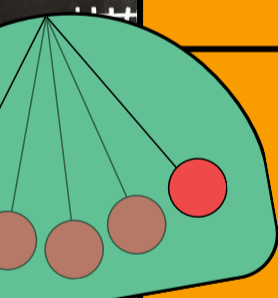
Types

- **Muscular Force:** Exerted by muscles to lift or move objects.
- **Magnetic Force:** Attraction or repulsion exerted by magnets.
- **Electrostatic Force:** Force between electrically charged objects.
- **Gravitational Force:** It attracts objects with mass towards each other.
- **Frictional Force:** Opposes motion when objects slide or roll.



Pressure & Fluids

- **Pressure:** Force per unit area.
- **Fluid Pressure:** Exerted in all directions by liquids and gases.
- **Buoyancy:** Upward force exerted by fluids that opposes gravity.



Atmospheric Pressure

- **Atmospheric Pressure:** Force exerted by the weight of air.
- Measured using a barometer (Mercury or Aneroid).

