Class 8 Science - Force and Pressure (Notes)

Key ideas

- A force is a push or a pull. It is measured in newton (N).
- A force can change the speed, direction or shape of an object.
- Contact forces: muscular force, friction.
- Non-contact forces: magnetic, electrostatic, gravitational.

Pressure

- Pressure = Force / Area. Unit: N/m^2 (pascal).
- Same force on a smaller area = more pressure (why knives are sharp).
- Liquids and gases also exert pressure on the walls of their container.
- Atmospheric pressure is the pressure exerted by the air around us.

Try at home

- Push a pin into a board with the flat head and then the pointed end.
  Which needs less force? Why?

Quick check

1. Name two non-contact forces. 2. Why do porters use a round cloth on their head?

Sample material for website visitors. Full material is given to enrolled students. www.labbaikcoaching.in