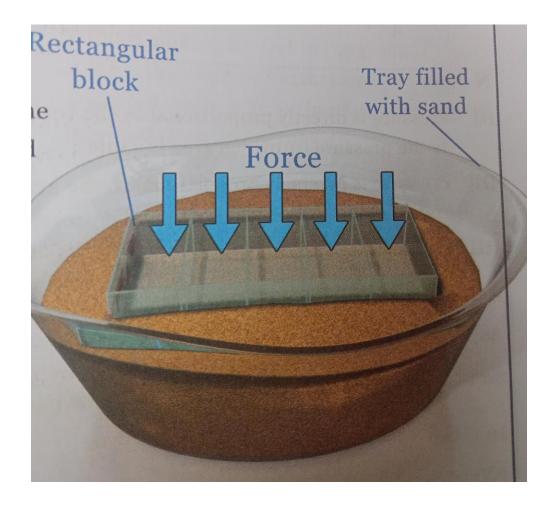
Ch-11: Pressure

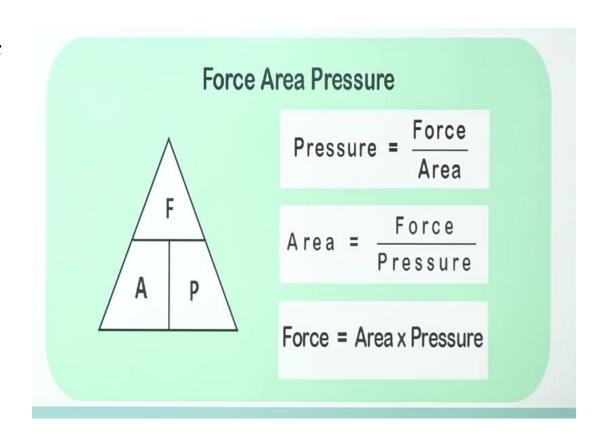
Thrust:

 When a body placed on a surface, the weight of the body acts downward and the force exerted by the body on the surface is equal to the weight of the body



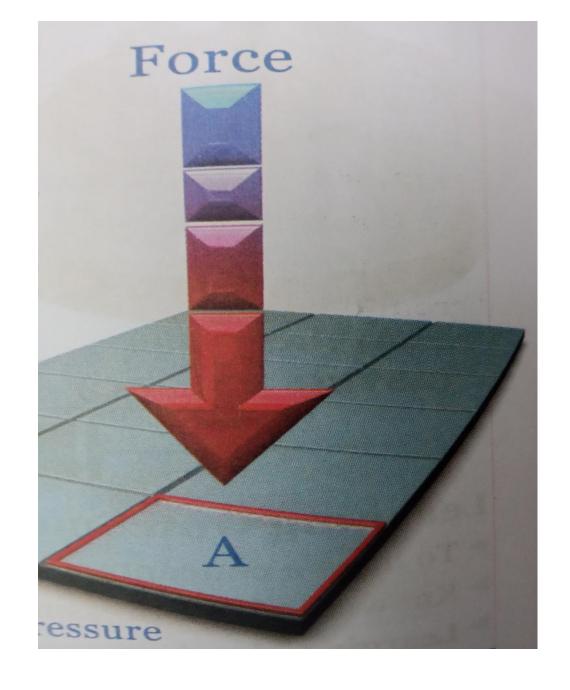
Pressure

- The intensity of force on any object depends upon the area of application and the force applied.
- Unit: N /m², pascal (pa)



Pressure

• Force exerted per unit area



Effect of force on an object:

• Depends on

- Magnitude of force applied greater the force, greater the effect
- Area over which the force is applied area of contact between the two objects

Applications of pressure:

• Smaller the area over which the force acts, the greater is the pressure and therefore. The greater is the effect of the force



Applications of pressure:





Applications of pressure:



