

Kinetic Theory

Def:

Explains the effects of Temperature + Pressure on matter

Assumes

- all matter is made up of small particles
- particles are in constant random motion
- collisions are elastic

Pressure

Force caused by collisions

Formula

$$P = \frac{\text{Force}}{\text{Area}}$$

* units *
memorize

$$1 \text{ atm} = 760 \text{ mmHg} = 760 \text{ torr} = 101.3 \text{ KPa} = 14.69 \text{ psi}$$

Physic: Pascal . $1 \text{ Pa} = 1 \frac{\text{Newton}}{\text{m}^2}$