

## CH 1 · Particulate Nature Of Matter

- a) solid, liquid, gas
- b) kinetic theory of matter
- c) pressure

### a) solid, liquid, gas

#### i) solid

- ↳ particles are closely packed
- ↳ strongest forces of attraction
- ↳ lower kinetic energy than gas & liquid



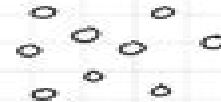
#### ii) liquid

- ↳ no fixed shape, fixed volume
- ↳ move in random
- ↳ forces of attraction in moderate
- ↳ low kinetic energy



#### iii) gas

- ↳ particles are far apart
- ↳ little to no force of attraction
- ↳ random movement, no fixed shape or volume
- ↳ high kinetic energy
- ↳ when cooled down, releases a lot of energy

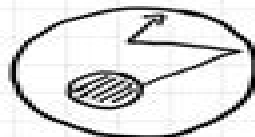


### b) Kinetic theory of matter

- depends on size & movement of particles
- can be proven with diffusion

↳ movement of particles from a region of high concentration to a region of low concentration

movement of particles - brownian motion



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**Hongru Du**



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