

LIQUIOS

SOLIDS

~ Particles are tighty packed together ~ They vibrate on spot

CASES

In Particle

The from Each other

The Gas has no Axial

volume or fills the space

CHANGES OF STATE

PARTICLE THEORY

Scientists believe that everything is made up from very small particles

VISCOSITY

TERM used to describe the flow rate of a Liguid

PHYSICAL CHANGES

h a physical change no new substances is formed, there is no change in mass and the reaction is easily reversed.

MELHING POINT

Tempuature a substance mets at The meding point of ICE is 0°C

KEY WORDS

Melting Boiling Physical change Melting Point Freezing Evaporation Boiling Point Condensation

Jublimation Properties

NEEL SIALL

OIFFUSION

Diffusion is the spreading out
of particles to like the space that one
in Diffusion happen by itself e.g.

Perfume.

Melting Evaporation/Boiling
Freezing Condensation

Energy in Energy in Energy out

~ Three foetors that affect the spead of Diffusion

- Temputure - Size of antida

- Size of portide - I tate of Diffusion Particle

COMPRESSING GASES

~ Compression happens when particles are forced closer to make them fit into a smaller space e.g. deadrost, teirspay

WSUBLIMATION

When some substances are heated. They do not melt but turn shought to a gas. They do not from a Liquid. e.g. Carbon Oloxide or Ony ice.

HEVAPORATION

In a liquid, some portices more energy than others. The particles with the most energy leave the surface, spread out and form a gas. This is evaporation. The liquid deep next boil onel happens of all tempuratures.

LY PHYSICAL CHANGES

when Solids are heated the particles gain energy and move apart. The portials break free and move post eachother. The solid switches to a liquid. This is melting when a liquid is heated it gains more energy and breach free from eachother the liquid switch

W FREEZWG

from it's particles, so they can only vibrate. The highest changes into a solid this is freezing. Waters freezing point is O'C.

to a gas. This is called beiling

hy BOILING

All particles have enough energy. The ten purotive at which woll bails is the Boiling point.

MELTING

Heat cause the water particles vibrate faster. The solid ice cube Changes to Light water.

L> CONDENSATION

Cooling a gas takes energy from its porticles so they star down and make closer together. The gos concluses to a liquid