

STATES OF MATTER

- The Four States of Matter
 - Four States
- Solid
- Liquid
- Gas
- Plasma

STATES OF MATTER

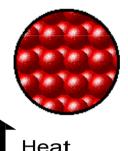
- Based upon particle arrangement
- Based upon energy of particles
- Based upon distance between particles

Kinetic Theory of Matter Matter is made up of particles which are in continual random motion.

STATES OF MATTER SOLIDS

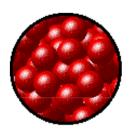
•Particles of solids are tightly packed, vibrating about a fixed position.

•Solids have a definite shape and a definite volume.



STATES OF MATTER LIQUID

Particles of liquids are tightly packed, but are far enough apart to slide over one another.



Liquids have an indefinit volume.



Heat

STATES OF MATTER GAS

 Particles of gases are very far apart and move freely.

PHASE CHANGES

Description of Phase Change Term for Phase Change

Heat Movement During Phase Change

Vaporization,

Liquid to gas

boiling and evaporation

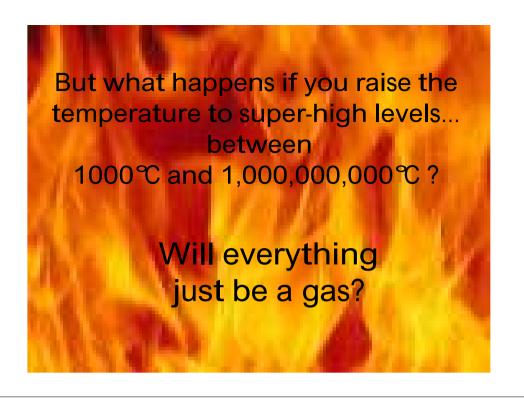
which includes Heat goes into the liquid as it vaporizes.

Gas to liquid Condensation

Heat leaves the gas as it condenses.

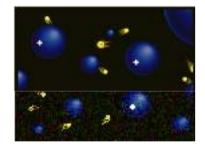
Solid to gas Sublimation

Heat goes into the solid as it sublimates



STATES OF MATTER **PLASMA**

- ° A plasma is an ionized gas.
- ° A plasma is a very good conductor of electricity and is affected by magnetic fields.
- ° Plasmas, like gases have an indefinite shape and an indefinite volume.



 Plasma is the common state of matter

STATES OF MATTER



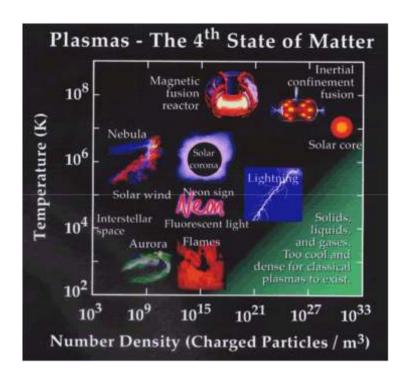


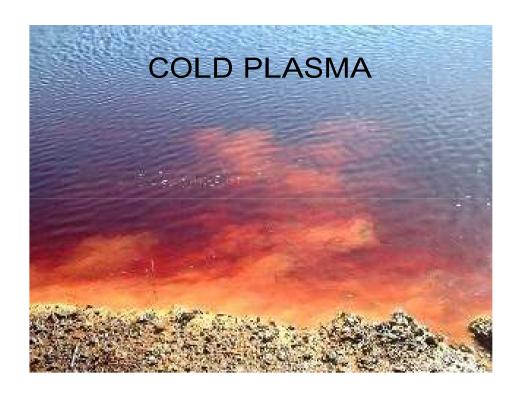












COLD PLASMA PEN

