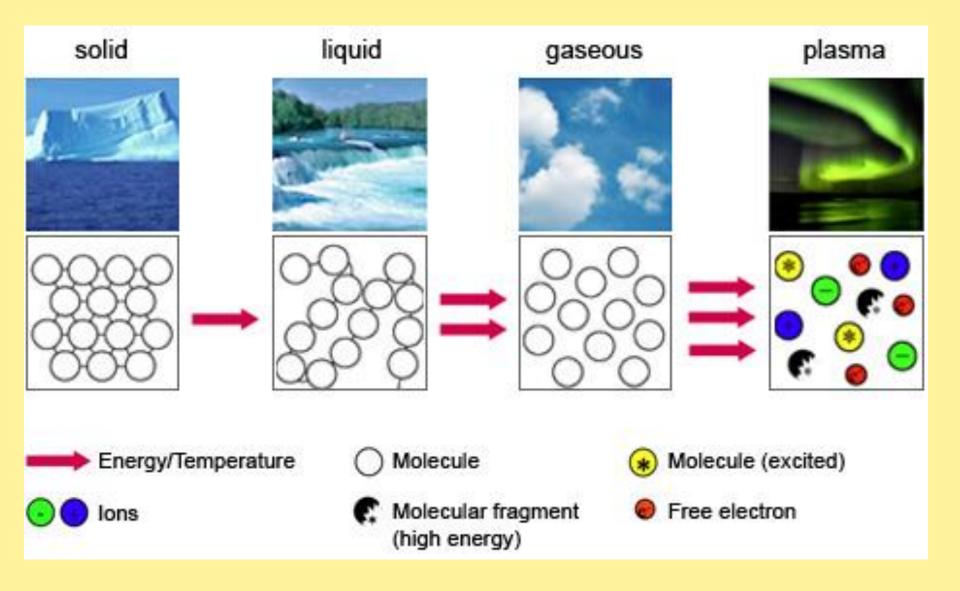
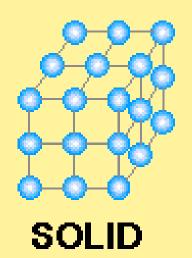
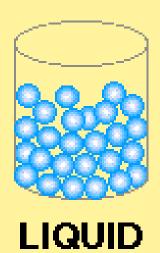
States of Matter

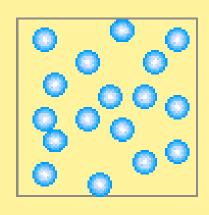
What happens as matter changes state?

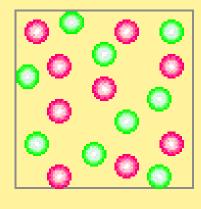


States of Matter





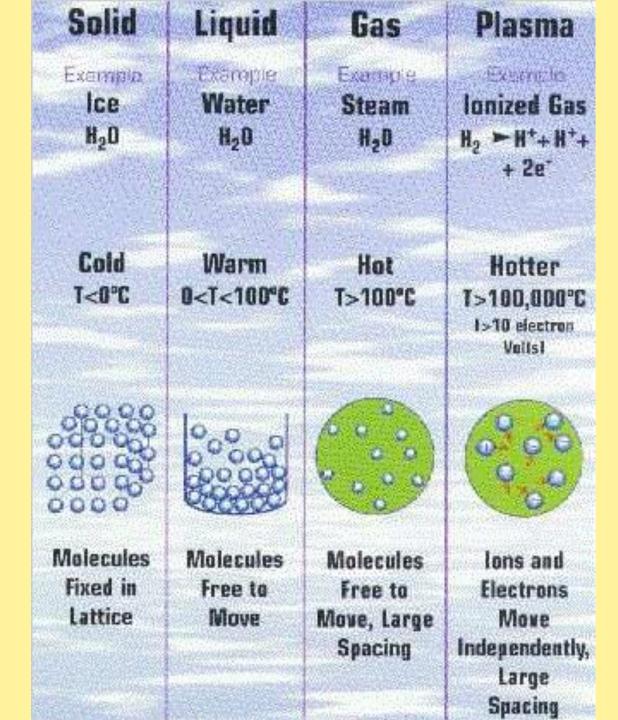


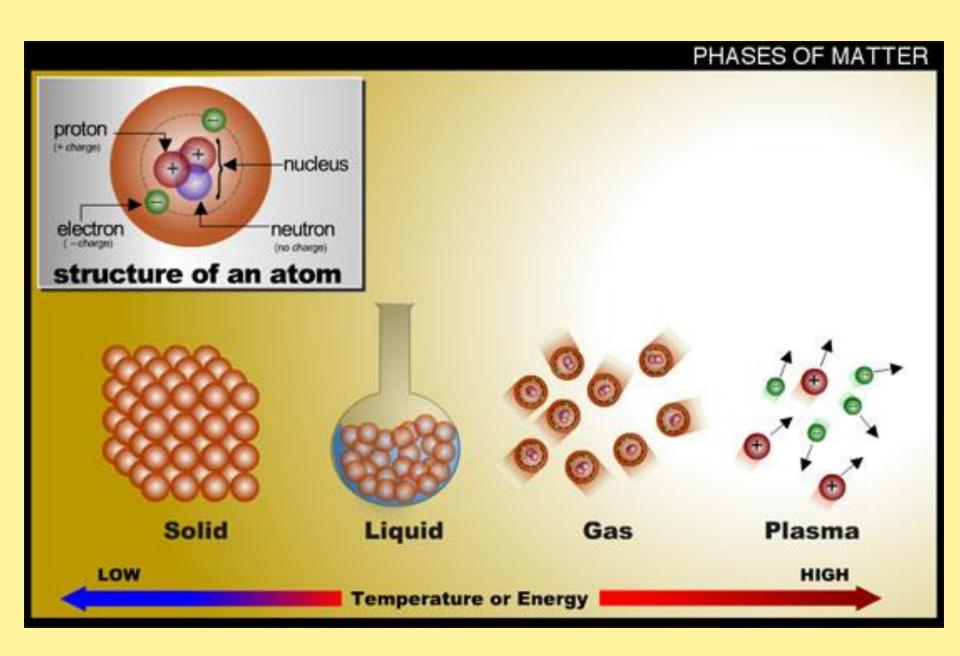


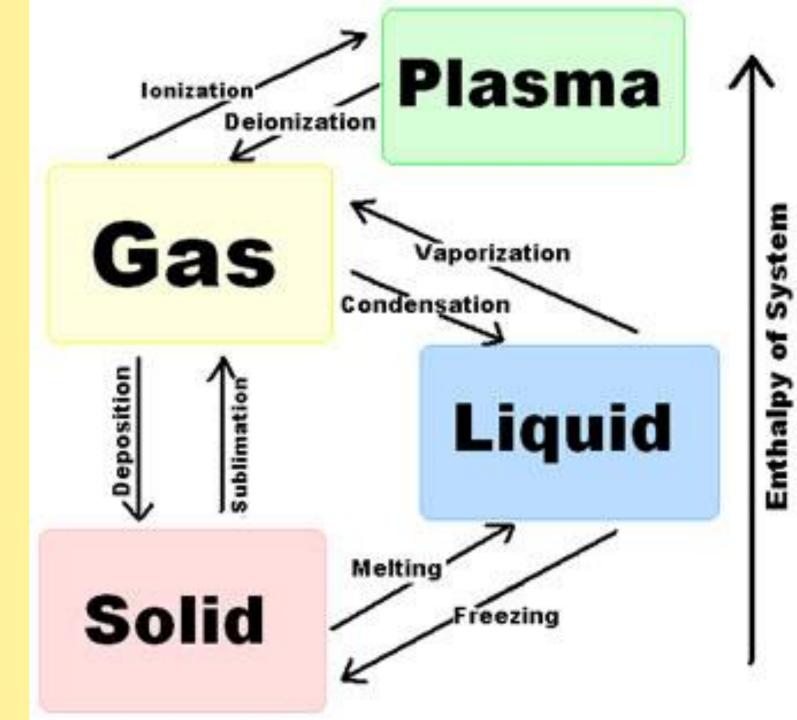
GAS

PLASMA

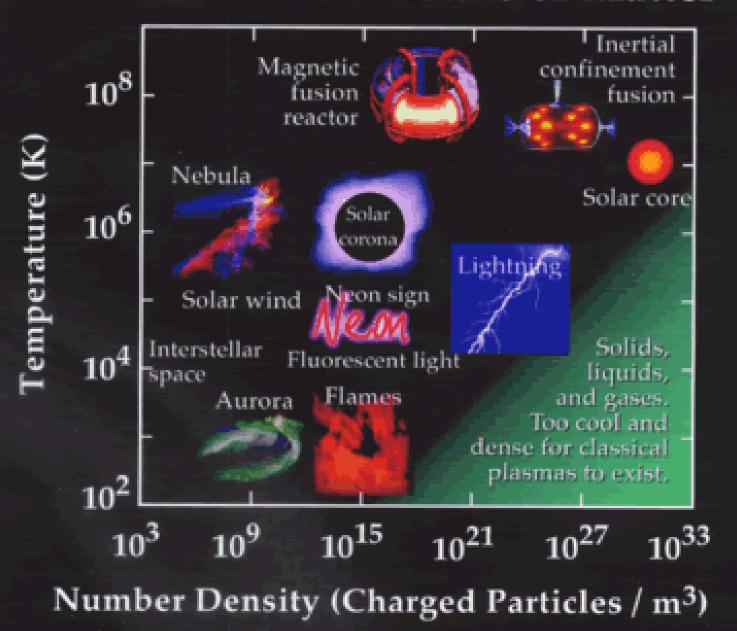
ADD HEAT



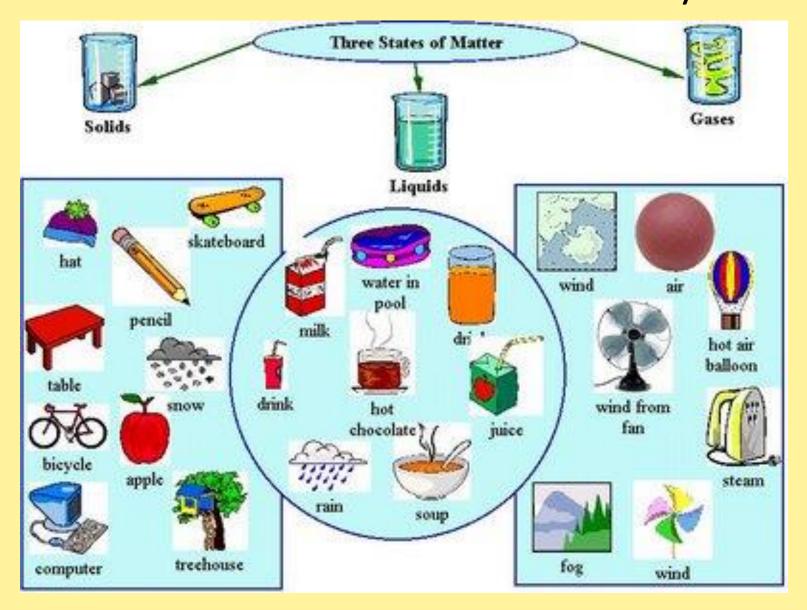




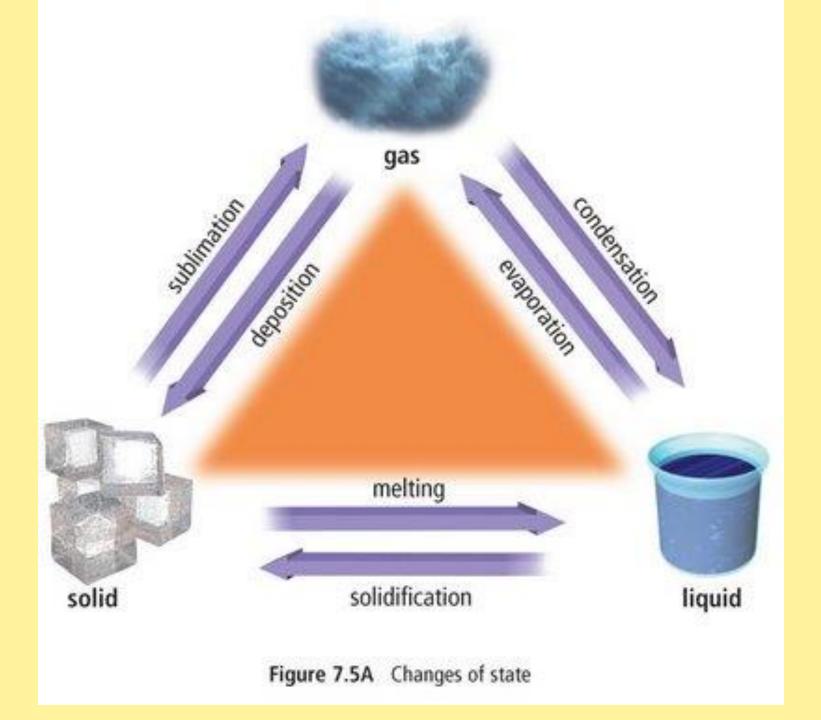
Plasmas - The 4th State of Matter



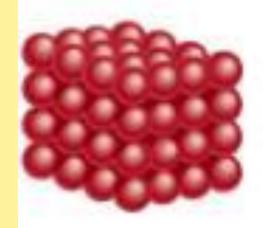
Plasma is interesting, but let's focus more on the 3 states of matter we encounter on a daily basis.



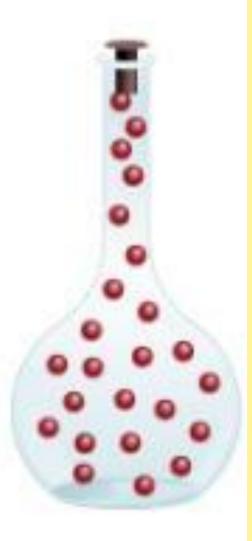


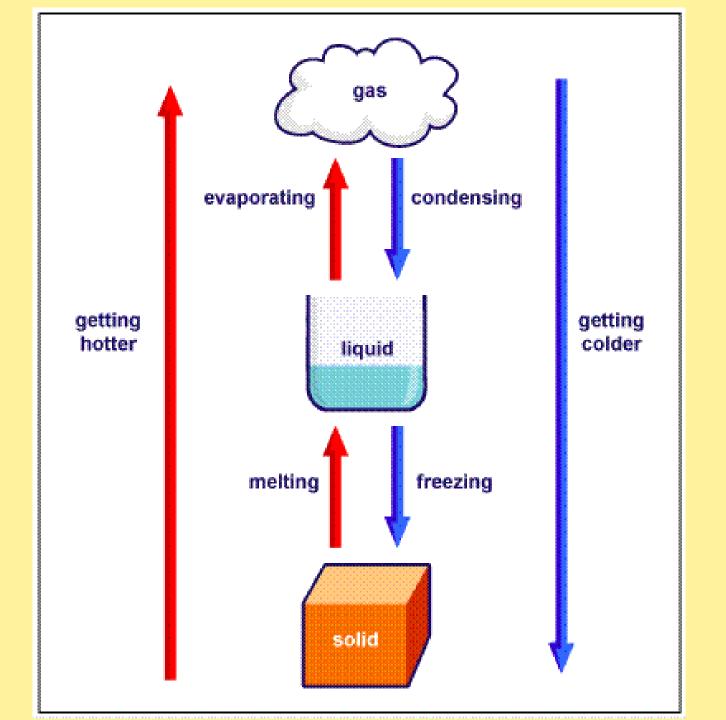


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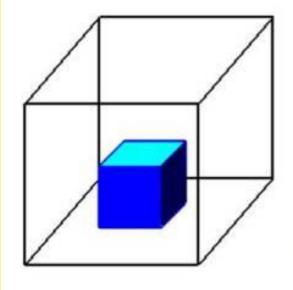


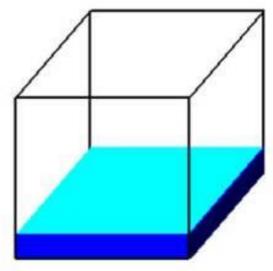


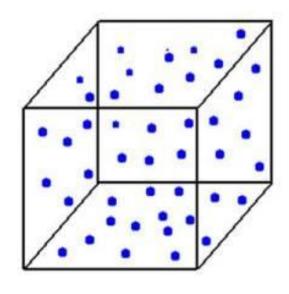


Phases of Matter

Glenn Research Center







Solid

Holds Shape

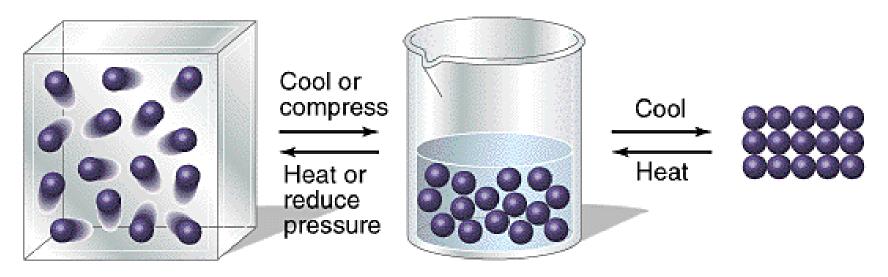
Fixed Volume

Liquid

Shape of Container Free Surface Fixed Volume

Gas

Shape of Container
Volume of Container

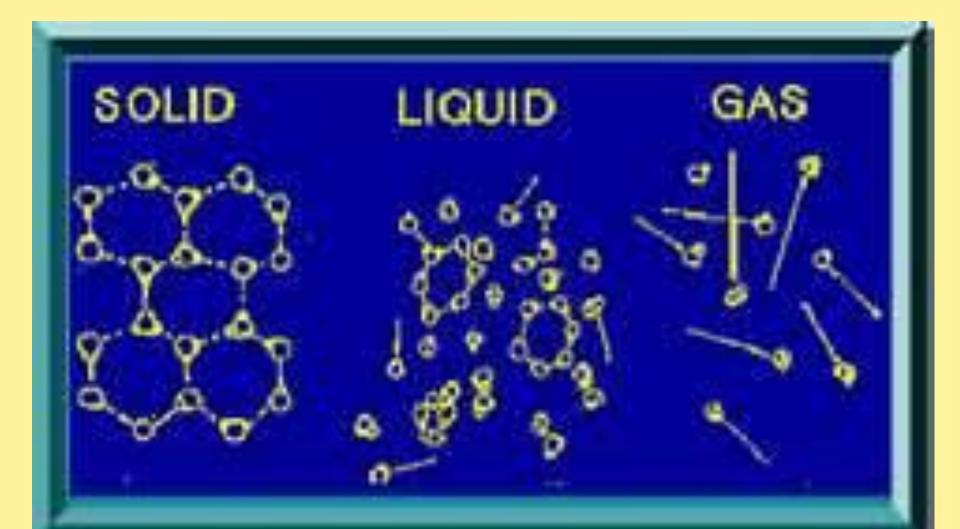


Gas

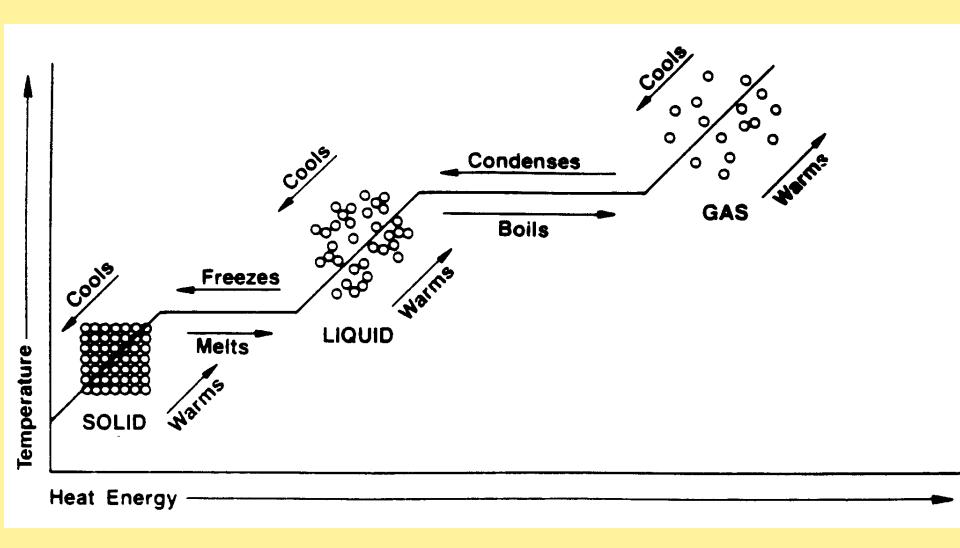
Total disorder; much empty space; particles have complete freedom of motion; particles far apart. Liquid

Disorder; particles or clusters of particles are free to move relative to each other; particles close together. Crystalline solid

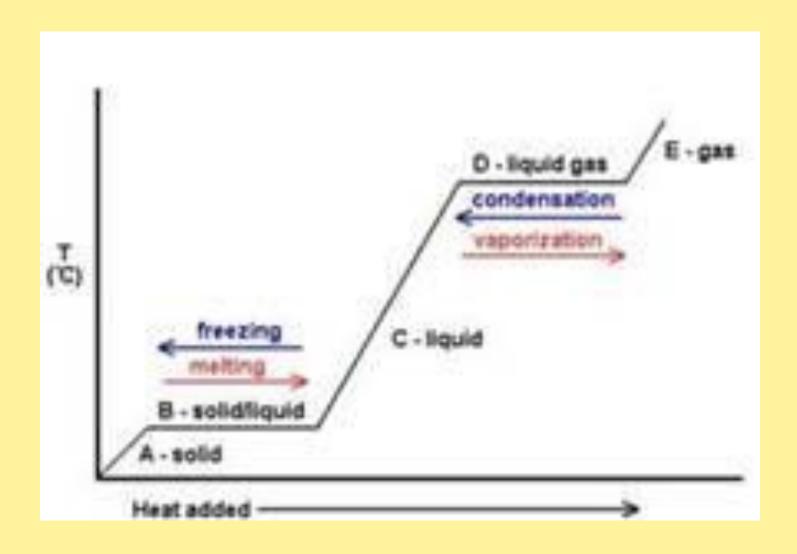
Ordered arrangement; particles are essentially in fixed positions; particles close together.

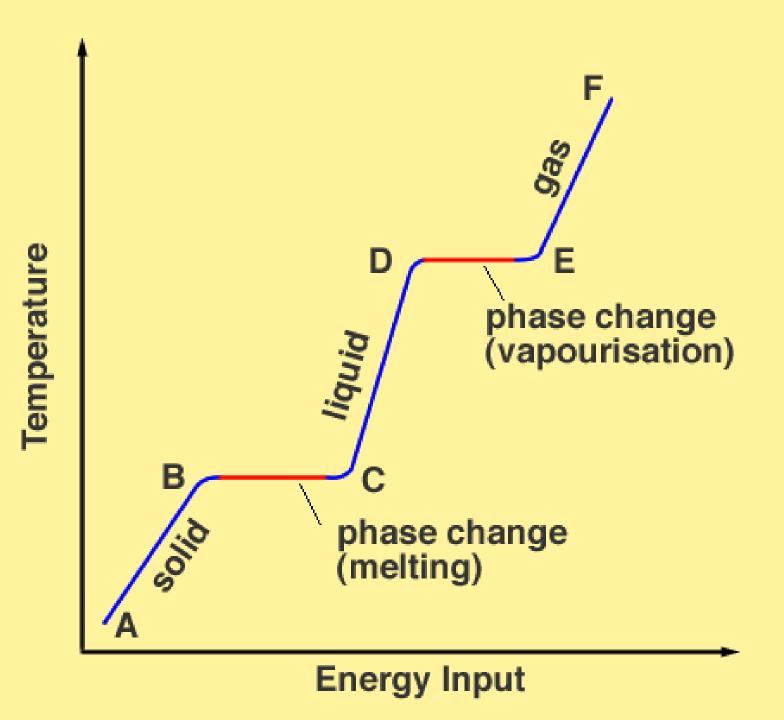


You must know this!



Phase Change Diagram...





Analyze this picture of a glass of root beer poured over ice.

What is the solid?
What is the liquid?
What is the gas?

