

THE 4 STATES OF MATTER



SOLID



LIQUID



GAS



PLASMA

PARTICLE ORGANIZATION	Solid particles are stuck in one place. Some solid particles are in repeating patterns called a crystal.	Liquid particles are loosely packed, and can move around each other.	Gas particles have space between them and can move freely in any direction.	Particles are broken into sub-atomic particles, have space between them, and can move freely
PARTICLE MOVEMENT	VIBRATE!	FLOW!	FLY!	EXPLODE!
SHAPE?	Can keep a shape	Can't keep a shape	Can't keep a shape	Can't keep a shape
VOLUME?	Has a certain volume	Has a certain volume	Volume is changeable	Volume is changeable
PARTICLE MOTION	Solid particles have the least amount of motion energy; less than any other state of matter.	Liquid particles have more motion energy than solid particles, but less motion energy than gas particles.	Gas particles have more motion energy than liquid particles, but less energy than plasma particles.	Plasma particles have the most motion energy; more than any other state of matter.
OTHER INFO	Adding energy to a solid will make it melt into a liquid.	Add energy to a liquid to make it boil or evaporate into a gas. Lower its energy to freeze it into a solid.	Add energy to a gas to make it explode into plasma. Lower its energy to condense it into a liquid.	Once matter is plasma it cannot go back to being a gas.