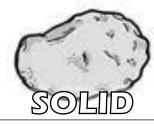
## THE 4 STATES OF MATTER









**PARTICLE** 

**ORGANIZATION** 

**PARTICLE** 

**MOVEMENT** 

SHAPE?

**VOLUME?** 

**PARTICLE** 

**MOTION** 

**OTHER** 

**INFO** 

Solid particles are stuck in one place.
Some solid particles are in repeating patterns called a crystal.

VIBRATEI

Can keep a shape

Has a certain volume

Solid particles have the least amount of motion energy; less than any other state of matter.

Adding energy to a solid will make it melt into a liquid.

Liquid particles are loosely packed, and can move around each other.

FLOWI

Can't keep a shape

Has a certain volume

Liquid particles have more motion energy than solid particles, but less motion energy than gas particles.

Add energy to a liquid to make it boil or evaporate into a gas. Lower its energy to freeze it into a solid.

Gas particles have space between them and can move freely in any direction.

FLY

Can't keep a shape

Volume is changeable

Gas particles have more motion energy than liquid particles, but less energy than plasma particles.

Add energy to a gas to make it explode into plasma. Lower its energy to condense it into a liquid. Particles are broken into sub-atomic particles, have space between them, and can move freely

EXPLODE

Can't keep a shape

Volume is changeable

Plasma particles have the most motion energy; more than any other state of matter.

Once matter is plasma it cannot go back to being a gas.