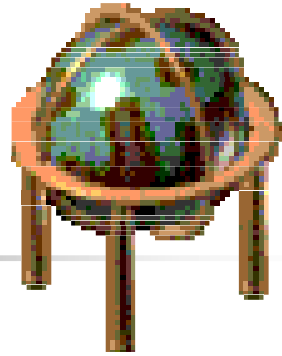
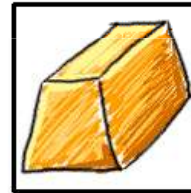


Matter:

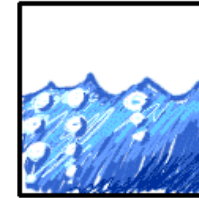


It's what the world's made of.

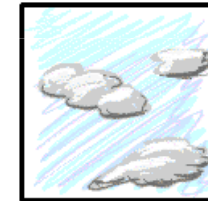
What do you know about matter?



Solids



Liquids



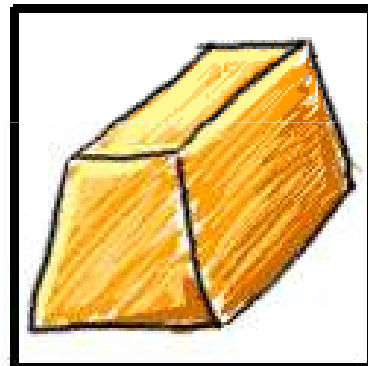
Gasses



Plasma

Solids

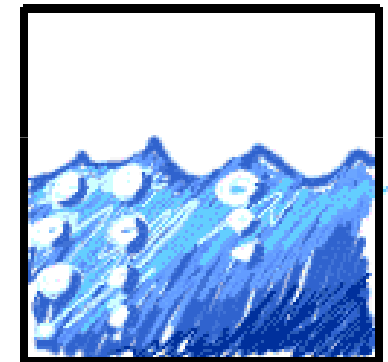
- ☞ Solids hold their own shape.
- ☞
- ☞ Solids take up space.



[Read more!](#)

Liquids

- ☞ Liquids take the shape of their container.
- ☞ Liquids have weight.
- ☞ Liquids take up space.



[Read more!](#)

Gasses

- ☞ Gasses spread out to fill the entire space given.
- ☞ Gasses have weight.
- ☞ Gasses take up space.



[Read more!](#)

Plasma

- ☞ Lightning is a plasma.
- ☞ Used in fluorescent light bulbs and Neon lights.
- ☞ Plasma is a lot like a gas, but the particles are electrically charged.



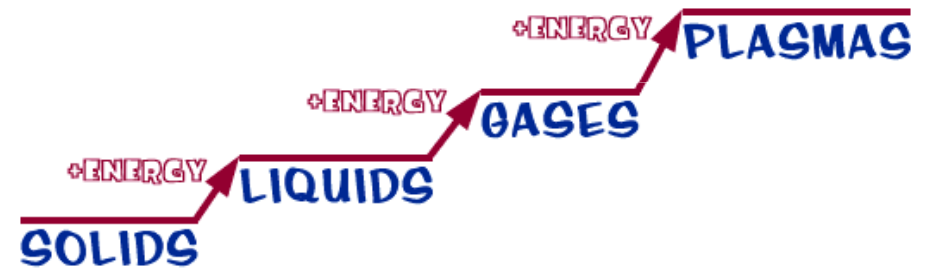
[Read more!](#)

STATES of matter?



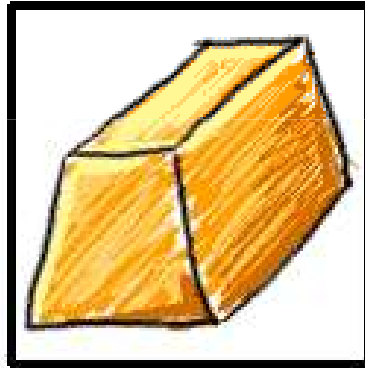
What would it take for matter to move from one state to another?

Energy determines the state!



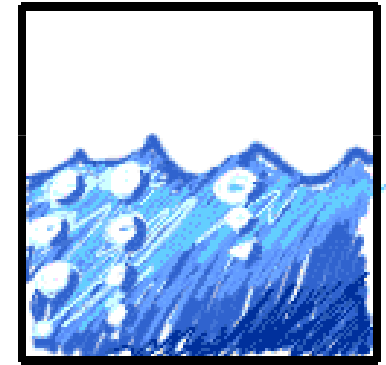
Particles in Solids:

- ☞ Are packed tightly together
- ☞ Have very little energy



Particles in Liquids:

- ☞ Are loosely packed
- ☞ Have medium energy levels



Particles in Gasses:

- ☞ Move freely
- ☞ Have LOTS of energy

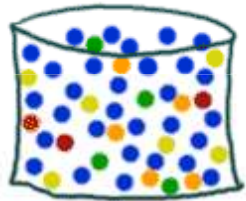


Particles in Plasma:

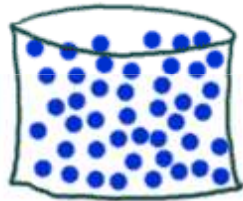
- ☞ Are electrically charged
- ☞ Have EXTREMELY high energy levels



Mixtures may be in different phases



Tap Water



Distilled

- ☞ Solid?
- ☞ Liquid?
- ☞ Gas?
- ☞ Plasma?

Here's how it works:

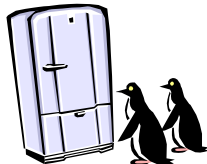
[Push here for a movie!](#)

Add or Subtract Energy. . .

When energy is added, particles move faster!



When energy is taken away, particles move slower!



What will happen? Why?



Solid + Energy = ?



☞ When energy is added to solids, they become liquids!

☞ Examples?

Liquid + Energy = ?



☞ When energy is added to liquids, they become gasses!

☞ What examples can you think of?

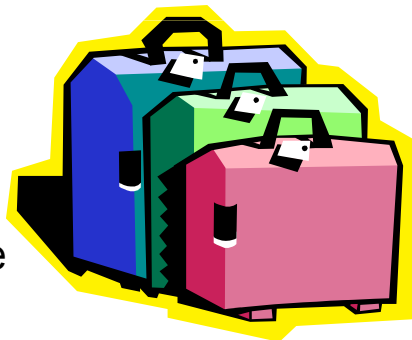
Changing States

☞ There are several names for matter changing states:

☞ State change

☞ Phase change

☞ Physical change



So, did we get something new?

- ☞ Ice cream and melted ice cream?
- ☞ Chocolate and melted chocolate?
- ☞ Ice, water, and water vapor?
- ☞ Steel and molten steel?



The End!

