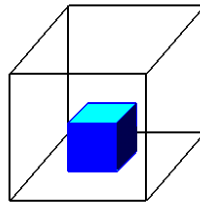
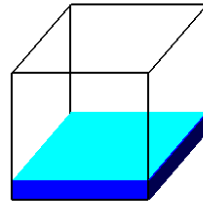


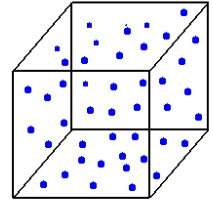
What is matter?



Solid



Liquid



Gas

Matter is anything with mass and volume

What is mass?



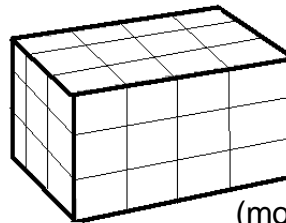
(more mass)



(less mass)

The amount of matter in an object

What is volume?



(more volume)

(less volume)



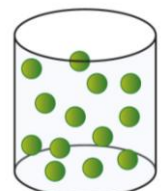
The amount of space something takes up.

How can a gas be described?

-Takes shape and volume of its container

-Free space between particles

-Flows easily



Gas

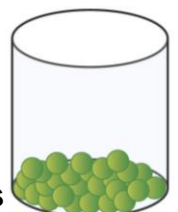
How can a liquid be described?

-Takes shape of its container

-Same volume in different jars

-Little free space between particles

-Flows easily



Liquid

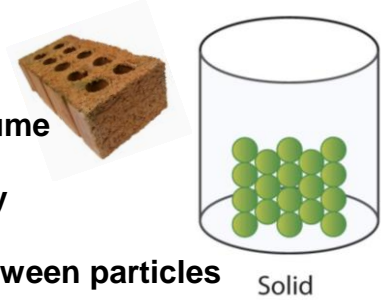
How can a solid be described?

-Permanent shape

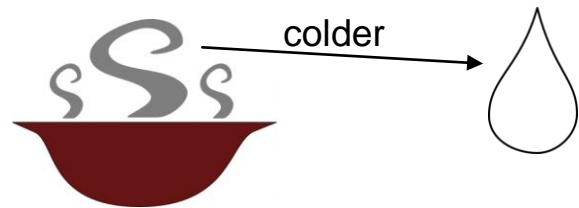
-Definite (exact) volume

-Does not flow easily

-Little free space between particles

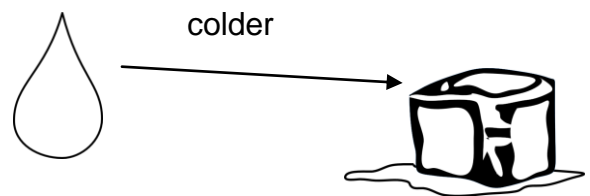


What happens when heat is taken away from a gas?



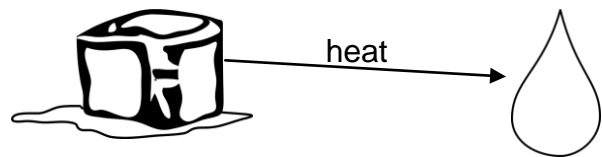
Condensation turns the gas into a liquid.

What happens when heat is taken away from a liquid?



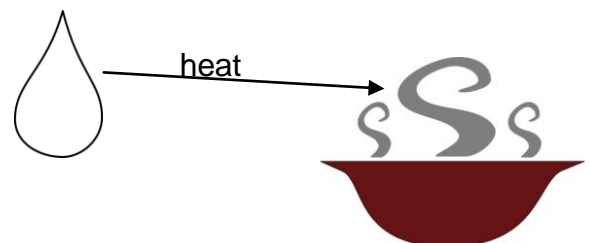
Freezing turns the liquid into a solid.

What happens when heat is added to a solid?



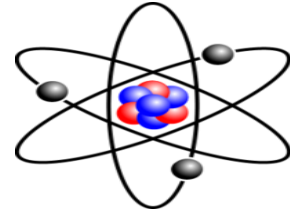
Melting turns the solid into a liquid.

What happens when heat is added to a liquid?



Boiling turns the liquid into a gas.

What is matter made up of?



Very small particles called atoms and molecules

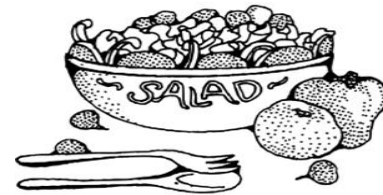
What is an element?



(there are over 100 elements!)

A substance made of one type of atom.

What is a mixture?



A combination of matter where physical properties are kept. (can be easily separated)

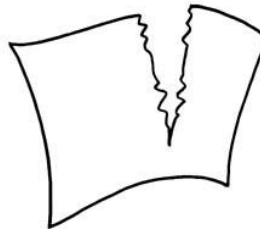
What is a solution?



(Kool-aid in water)

A mixture in which one thing dissolves in another.

What is a physical change?



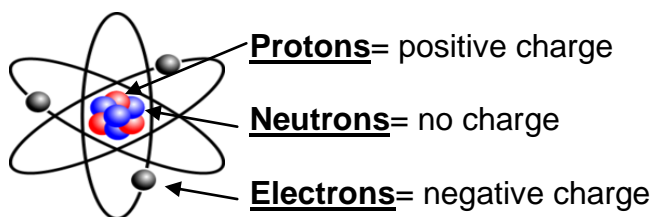
The way something looks changes but nothing is created.

What is a chemical change?



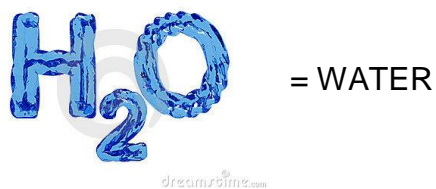
A change where something new is created.

What is an atom?



They are the smallest parts of elements.

What is a compound?



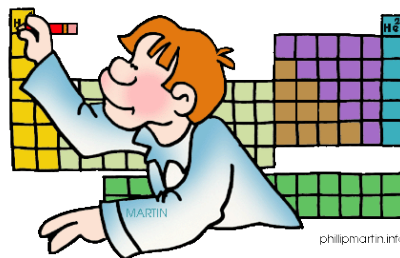
Two or more elements put together. The smallest part of a compound is a molecule.

What is the study of atoms?



NANOTECHNOLOGY

What is the periodic table?



A table used to organize the elements.