

Recall

A Homogenous mixtures is called a solution.

Add to your notes

**Solution** - is a mixture of 2 or more materials that come together to form one set of properties that blend together

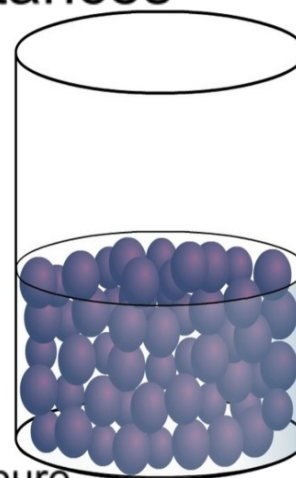
- Solutions have properties that blend together. This depends on how much of one material and how much of the other material are in the mixture.

ex) Salt in water will mix so that the salt will disappear and cannot be seen (As long as you have lots of water) Ice tea, Kool-aid...

## Explaining Mixtures and Pure Substances

Have already

The Theory that scientist use to explain the properties of various mixtures and substances we use the **Particle Theory of Matter**



1) All matter is made up of extremely tiny particles with spaces between them

-Each pure substance has it's own type of pure particle, different from the particles of other pure substances.

[Pure Substance vs Mixture MOO Moo Math - YouTube](#)

2) Particles are always moving (More energy = faster moving)

3) Particles are attracted to each other (some more than others)

Pure Substances: is a material made up of only one kind of extremely small particle. Different from all other pure substance

Examples of pure substance are:

water, gold, copper, silver, and sugar.

Elements or compounds

A drop of water from a glass will look identical to another drop of water from the same glass.

### Fun Note

There are 1.67 sextillion water molecules in a water drop. Now, the number of atoms in a droplet of water

1 670 000 000 000 000 000 000

[Types of Pure Substances \(youtube.com\)](#)

