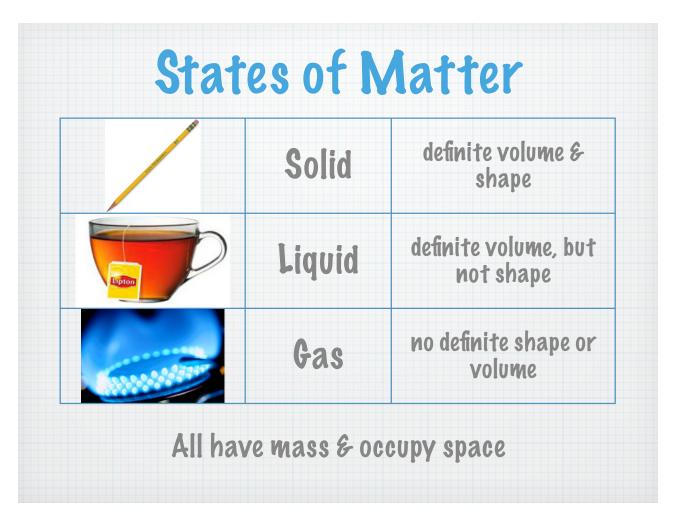
Separating Mixtures

Mixtures & Solutions Investigation 1

States of Matter

	Solid	definite volume & shape
	Liquid	definite volume, but not shape
	Gas	no definite shape or volume
AII	have mass	& occupy space





Separating a Mixture

- * screening
- * filtering
- * floating
- * using a magnet
- * evaporation



Dissolve



* the process of a material becoming incorporated uniformly into another

Evaporation



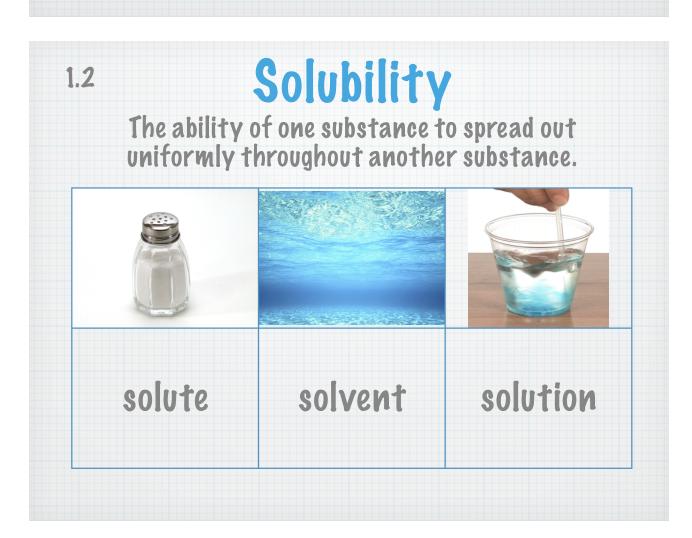
The process of a liquid drying up. The change of state from a liquid to a gas.

Crystal



A natural form of a substance. Crystal shape is also a physical property that helps to identify a substance.

Solutions are mixtures, but mixtures aren't always solutions.





Separating a Solution

How can you separate a solution?

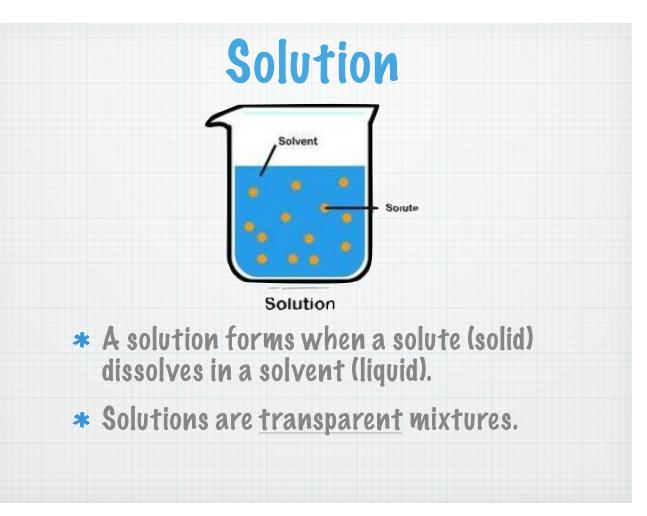


Separating a Solution

How can you separate a solution?

When a solution evaporates, it leaves the dissolved solid material behind.









Salt & Water **Mixture or Solution?**

Mixture

Solution

* two or more ingredients mixed the water stays together

* salt dissolves and clear

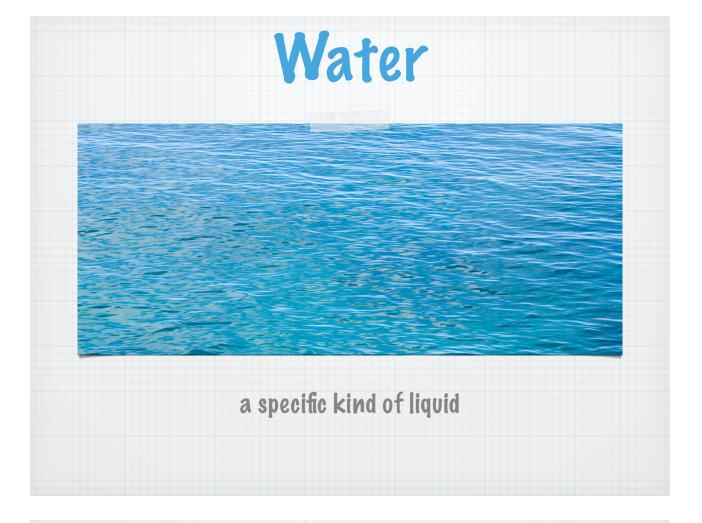
BOTH

A MIXTURE & SOLUTION

Liquid. Solution. Water.
What's the difference?Image: Solution solutionImage: Solution solution



a state of matter that has mass, occupies space, has definite volume, but flows to fill a container up



Solution



a mixture in which one material seems to disappear into another. Water solutions occur when a material (solid) dissolves in water.

Separating Mixtures

A cup contains gravel, salt and powder. How can you separate the three?



- 1. Add water to the dry mixture.
- 2. Place an empty cup below the funnel with filter paper inside and place the screen over the funnel.
- 3. Pour the mixture through the filter over the funnel to

capture:

- Gravel in the screen
- Powder in the filter paper &
- Salt solution in the cup



4. Pour some salt solution in an evaporation tray to evaporate the water and leave behind the salt.