



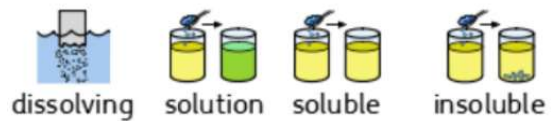
Mixing & Separating Knowledge Organiser

Key vocabulary

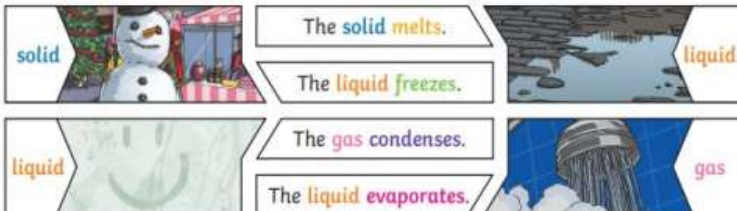
Substance	A type of matter with uniform properties
Mixture	A number of substances together but can be separated
Dissolving	To become incorporated into a liquid
Solution	The product of when a substance is dissolved into a liquid
Soluble	Able to be dissolved, especially in water
Insoluble	Cannot be dissolved, especially in water
Evaporation	to turn from liquid into gas; pass away in the form of vapour.
Condensation	small drops of water which form when water vapour or steam touches a cold surface, such as a window
Filtering	a device used to remove dirt or other solids from liquids or gases. A filter can be made of paper, charcoal, or other material with tiny holes in it.

What is dissolving?

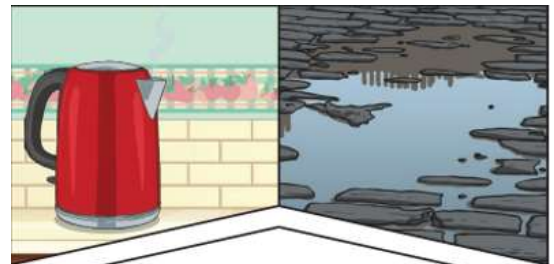
- * When the particles of a solid mix with the particles of a liquid, this is called dissolving.
- * The result is a solution.
- * Materials that dissolve are soluble.
- * Materials that do not dissolve are insoluble.



Changes of State



Evaporation & Condensation



Evaporation occurs when water turns into **water vapour**. This happens very quickly when the water is hot, like in a kettle, but it can also happen slowly, like a puddle **evaporating** in the warm air.

Filtering

Sieving

Evaporating

To remove dirt or other solids from liquids

A utensil with meshes or holes to separate finer particles from coarser ones or solids from liquids

To turn from liquid into gas (vapour)



Condensation is when **water vapour** is cooled down and turns into water. You can see this when droplets of water form on a window. The **water vapour** in the air cools when it touches the cold surface.