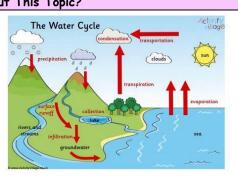
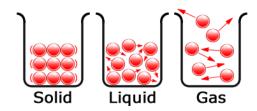
## Knowledge Organiser UKS2 Science -Properties and Changes of Materials

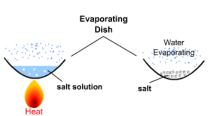
## What Should I Already Know About This Topic?

- How the shape of solids can be changed by squashing, bending, twisting and stretching.
- What solids, liquids and gases are.
- Some materials change states between solids, liquids and gases when their temperature is changed.
- The processes of the water cycle:



Key Vocabulary	
Condensation	Small drops of water which form when water vapour or steam touches a cold surface.
Dissolves	When a substance is mixed with a liquid and it disappears.
Evaporation	To turn a liquid into a gas.
Filtering	To pass (a liquid, gas, light, or sound) through a device to remove unwanted material.
Solid	A substance with a firm shape.
Liquid	A substance that flows easily.
Gas	A substance that spreads out and can often be invisible to the naked eye.
State	Whether something is a solid, liquid or a gas.
Properties	The way an object behaves.
Particles	A tiny amount of something.
Soluble	Something can be dissolved.
Insoluble	Something cannot be dissolved.
Solution	A mixture that contains two or more substances i.e salt and water.
Temperature	How hot or cold something is.
Carbon Dioxide	A gas consisting of carbon and oxygen.
Sieving	One way of separating materials.
Yeast	A product essential in the chemical reaction of making bread.
Reaction	A chemical process in which substances act mutually on each other and are changed into different substances, or one substance changes into other substances.





## **Key Facts**

A change that is **reversible** means a substance that has been changed can be changed back into its original state. There has not been a chemical reaction.

A change that is **irreversible** means a substance that has been changed cannot be changed back into its original state. This is due to a chemical reaction.

Some materials will dissolve in a liquid to form a solution.

Chemical reactions are essential in cooking and baking everyday products.

Some materials can be separated after they have been mixed based on their properties.

Some methods of separation include the use of a magnet, a filter, a sieve and evaporation.