

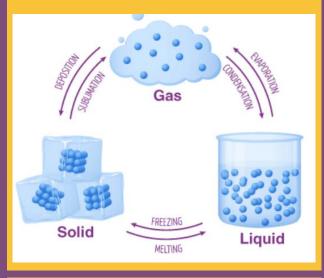
# Knowledge Bank: Year 5 Science – Properties of materials

## Key Vocabulary:

dissolving	When a solid is mixed into a liquid and becomes a solution.
evaporating	When a liquid turns into gas due to heat.
condensation	The change of state from gas to liquid.
reversible reaction	When changes to a material can be reversed.
irreversible reaction	When a change can't be reversed because a new product has been made.
solution	A solution is a mixture of two or more substances that are evenly mixed.
mixture	A combination of two or more chemical components that are not chemically linked

How can <u>chemistry</u> help us to escape Alchemy Island?

Diagrams:



#### пеу гасіз.

Heating and cooling can change the state of the material.

A mixture is when two or more substances are mixed and remain present.

A solution is created by dissolving materials in a liquid.

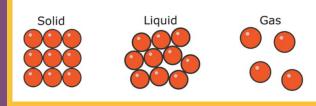
Heating can cause materials to change permanently. When this happens, a new substance is made.

When a substance dissolves, it might look like it has disappeared, but it is just mixed with the water to make a transparent liquid.

### What I should already know

- Objects can be grouped by whether they are solid, liquid or gas.
- Materials can be compared and grouped based on their states of matter.
- States of matter can be changed through heating and cooling.
- Evaporation and condensation are part of the water cycle.

#### Three states of matter:



Reversible changes, such as mixing and dissolving solids and liquids together, can be reversed by:

