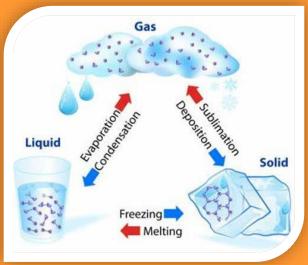




# Water O' Water States of Matter



### LINKS IN THE CURRICULUM:

EYFS -Water exploration

Year 5 – Changes in state when separating solutions

States of

Matter

Solids

Melt

Precipitation

#### **KEY VOCABULARY**

Some liquids can change state,
These are materials that keep
their shape unless a force is
applied to them. Solids take up
the same amount of space no
matter what has happened to
them.

Materials can be one of three

states. Solid, Liquid or gas.

Liquids take the shape of their container. They can change shape but do not change the amount of space they take up.
They can flow or be poured.

Gases can spread out to completely fill the container or room they are in. They do not have any fixed shape.

Water
vapour

This is water that takes the form of a gas. When water is boiled, it evaporates into a water vapour.

This is when a solid changes to

Freeze Liquid turns to a solid during the freezing process.

a liquid.

fall from a cloud as rain, sleet,

Evaporate Turn a liquid into a gas.

Condense Turn a gas into a liquid.

Liquid or solid particles that

Particles

The tiny pieces that make up everything.

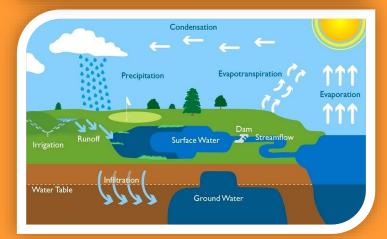
The Water Cycle

The continuous movement of water on earth in different forms.

# Key Knowledge

- Some materials change state when they are heated or cooled.
- Evaporation and condensation are changes of state caused by temperature, These are key parts of the water cycle.
- Solids, liquids and gases can be identified by their observable properties.
- Solids have a fixed size and shape.
- Liquids can pour and take the shape of the container in which they are put.
- Liquids form a pool not a pile.
- Solids in the form of powders can pour as if they were liquids but make a pile not a pool.
- Gases fill the container in which they are put.
- Gases escape from an unsealed container
- Gases can be made smaller by squeezing/pressure.
- Liquids and gases can flow

Solid	Liquid	Gas
	0000	
close together and cannot	Particles in a liquid are close together but can move around each other easily.	spread out and can move



## Working Scientifically

- Make a visual representation or model of the water cycle.
- Record ideas and develop simple descriptions of observations.
- Investigate the effect temperature has on changing states.