Year Group: 4 Summer

Knowledge Organiser: Science

**Theme:** States of matter



## **Key learning:**

Matter makes up our planet and the whole universe

On Earth, all matter exists in one of three main states: solid, liquid or gas

Depending on its temperature, matter can change from one state to another

## What have I learnt already:

-Different materials have different properties and are used for different purposes

-The shape of solid objects can be changed by sauashing, twisting or stretching it

## Key knowledge that will be learnt:

When water and other liquids reach a certain temperature, they change state into a solid or a gas. The temperatures that these changes happen at are called the boiling, melting and freezing points



There are three states of matter.

Solid	Liquid	Gas
6666		Din.
	Particles in a liquid are close together but can move around each other easily.	spread out and can move
400	-	Water from lakes, puddles, rivers and says is evaporated by the sup's



- and seas is evaporated by the sun's heat, turning it into water vapour.
- 2. This water vapour rises, then cools down to form water droplets in clouds (condensation).
- 3. When the droplets get too heavy, they fall back to the earth as rain. sleet, hail or snow (precipitation).

Key Vocabulary:		
solid	can hold its shape, e.g. ice	
liquid	forms a pool; it flows or runs, e.g. water	
gas	can flow, expand and be squeezed, e.g. steam	
melting	the process of changing a solid into a liquid	
freezing	the process of changing a liquid into a solid	
evaporation	the process of changing a liquid into a gas	
condensation	the process of changing a gas into a liquid	