

## States of Matter knowledge Mat

Sticky Knowledge- What do I need to know?		Key Vocabulary- What words do I need to know and understand?	
<b>Week 1</b>	To be able to identify which materials are solids, liquids and gases.	<b>Solid</b>	A solid has a definite shape that remains the same unless a force is acting upon it.
<b>Week 2</b>	Discover how quickly liquids move.	<b>Liquid</b>	A liquid has no fixed shape but a volume and takes on the shape of its container.
<b>Week 3</b>	To discover how materials can change state of mind depending on the temperature.	<b>Gas</b>	A gas has no fixed shape or volume and will always spread out to fill the container that it is in.
<b>Week 4</b>	Discover the processes of melting and solidifying.	<b>Melting</b>	When heat is applied to a solid the particles vibrate more, reducing the forces holding them together.
<b>Week 5</b>	Discover the process of freezing and melting.	<b>Steam</b>	Steam is the name given to the gaseous state of water at or above 100 degrees Celsius and is not visible.
<b>Week 6</b>	Discover the process of evaporation and condensation.	<b>Solidify</b>	This is when cooling of a liquid slows the movement of the particles and they become solid at or near room temperature.
		<b>Water vapour</b>	Water vapour is the gaseous state of water below 100 degrees Celsius and is visible as tiny water droplets.
		<b>Evaporation</b>	When heat is applied to a liquid the particles move around even faster, breaking away from each other and forming a gas or vapour. When this happens to all the particles it is called boiling.
		<b>Condensation</b>	When a gas has heat removed from it the particles in the vapour slow down, come together and loosely bond, returning to