



Year 4 Science Knowledge Organiser – States of Matter



Key Vocabulary	
Word	Meaning
Temperature	How hot or cold something is. Measured in degrees Celsius.
Celsius	The common scale in the UK for measuring temperature.
Particle	The smallest amount of something. Particles are so small you can not see them with your eyes.
Melting	The process of a solid heating and changing into a liquid.
Evaporation	The process of a liquid heating and changing into a gas.
Condensation	The process of a gas cooling and changing into a liquid.
Freezing	The process of a liquid cooling and changing into a solid.
Boiling	To become so hot (100°C) that water bubbles and then turns into a gas.
Precipitation	When water or snow fall from a cloud.



Solid



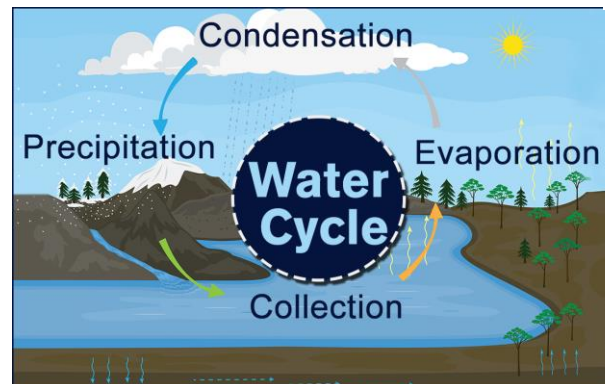
Liquid



Gas

Key Knowledge	
Types of Materials	
Solids 	Stays the same shape Can be held in your hands Can be cut into a new shape Examples - wood, metal, rock, ice
Liquids 	Flows and can be poured Changes shape to its container Volume never changes Examples - water, juice, oil
Gases 	Often invisible Always fills its container Shape & volume change Examples - oxygen, hydrogen, carbon dioxide
What does changes of state mean?	When a material changes from one material type to another, we say 'it has changed state.'

Did you know it is possible to weigh the bubbles in a bottle of lemonade?



Is sand a solid or a liquid? You can pour it from a bucket but it is dry and you can build with it?

