## Science Unit title: States of Matter

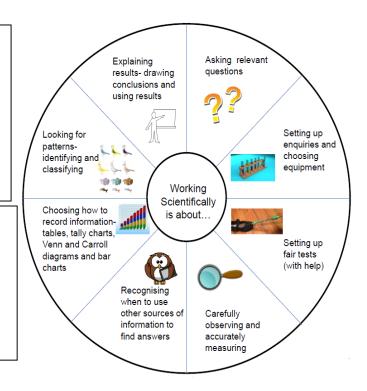
Pupils will learn the names of the different states of matter. They will conduct investigations to deepen their understanding of the behaviour of solids, liquids and gasses. Children will look at the water cycle enabling them to explain the roles of condensation and evaporation.

Prior
learning
Everyday
materials and
their

properties

## Future learning

Exploring reversible changes, including, evaporating, filtering, sieving, melting and dissolving, recognising that melting and dissolving are different processes. Exploring changes that are difficult to reverse, for example, burning, rusting and other reactions, for example, vinegar with bicarbonate of soda.



Key Knowledge	
Changing states	Matter can change from one state to another if it is heated or cooled – solid, liquid and gas
The water cycle	The water cycle is a complete journey that water makes, from one place to another and from one state to
Solids hold their shape	Particles in a social should their shape? The scenarios can not seem to social one seem to social control of social cont
Liquids form a pool not a pile	Liquids  Lauk-have a delivite in stand out don't have a delivite inspect up ad inspection of the content of the stand of the content of the stand
Gas will escape from an unsealed container	GAS molecules widely separated, move at great speec

Key Vocabulary		
matter	Objects that take up space and have a mass and called matter. Everything around you is made up of matter.	
solid	a solid holds it shape and has a fixed volume.	
liquid	a liquid fills up the shape of the bottom of a	
	container. It forms a pool and also has a fixed volume.	
gas	a gas can escape from an unsealed container. It	
	fills up the space that it is in and does not have a	
	fixed volume.	
evaporation	Changing from a liquid to a gas.	
condensation	Changing from a gas to a liquid	
temperature	Degree or intensity of heat present in a substance	
	or object and shown by a thermometer or	
	perceived by touch.	
Celsius	a scale of temperature on which water freezes at 0 degrees and boils at 100 degrees under standard conditions.	
molecules	the very tiny particles that make matter	
reversible	Capable of being reversed so that the previous state is restored.	
irreversible	Not able to be undone or altered - a chemical change has occurred.	

For more information,

Solids, liquids and gases - KS2 Science - BBC Bitesize