

YEAR 4 STATES OF MATTER KNOWLEDGE ORGANISER

KEY VOCABULARY AND SPELLINGS

Matter – any solid, liquid or gas that exists in the universe

Solid – substance that stays the same shape whether in a container or not

Liquid – substance that can flow and take on the shape of a container

Gas – substance that has no fixed shape, like oxygen

Temperature – how hot or cold something is, normally measured in degrees Celsius (°C)

Evaporation – the process of liquid heating and changing into a gas

Condensation – the process of a gas cooling and changing into a liquid

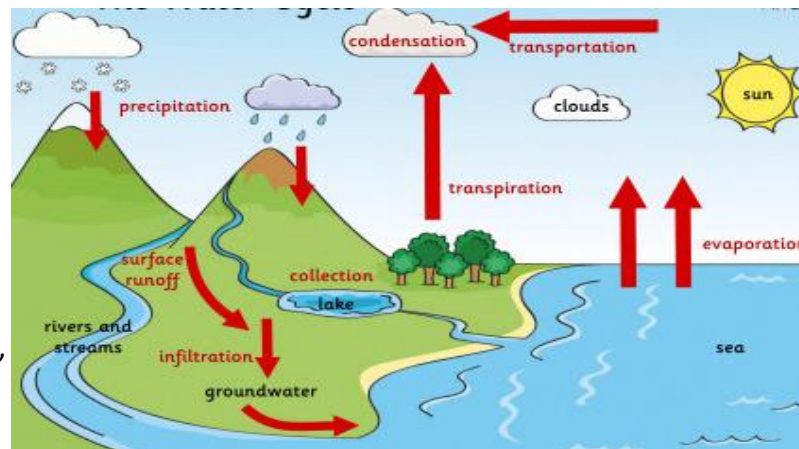
Water cycle – the process of water being recycled over and over again

Particle – an extremely small unit of matter

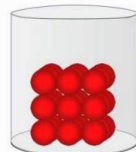
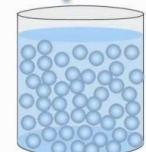
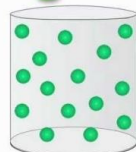
WATER CYCLE

The water cycle is the journey water takes as it moves from the land to the sky and back again.

It follows a cycle of evaporation, condensation, precipitation and collection/run off.



STATES OF MATTER

solid	liquid	gas
		
● rigid	● not rigid	● not rigid
● fixed shape	● no fixed shape	● no fixed shape
● fixed volume	● fixed volume	● no fixed volume
cannot be squashed	cannot be squashed	can be squashed

CHANGING STATE

Some materials change state when they are heated or cooled and some of these changes can be reversed.



Everyday examples of evaporation: washing drying, water boiling, puddles evaporating on a hot day.

Everyday examples of condensation: water droplets forming inside windows or on a cold glass.





PARK HILL
JUNIOR
SCHOOL