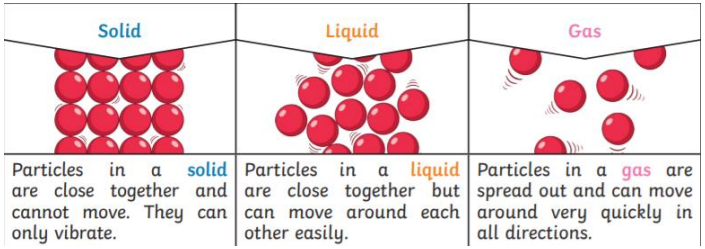
Mickleover Primary School – Science Knowledge Organiser

Title: States of Matter	Year Group: 4	Term: Spring

Vocabulary you will know...

States of matter	Matter is what makes up our world. There are three states that matter can be categorised into: Solids, Liquids or Gases.
Particle	A tiny part of matter.
Solid	A material that keep its shape unless force or heat is applied to it.
Liquid	A material that takes the shape of its container. They can flow or be poured.
Gas	Gases spread out to completely fill the container or room they are in. They do not have a fixed shape and can move in all directions.
Water vapour	This is water that takes the form of a gas.
Melting	The process of a heating a solid into a liquid.
Freezing	The process of freezing a liquid into a solid.
Temperature	The measurement to show how hot or cold something is.
Celsius (°C)	The measurement of temperature.
Condensation	The process of a gas turning into a liquid.
Evaporation	The process of a liquid turning into a gas.

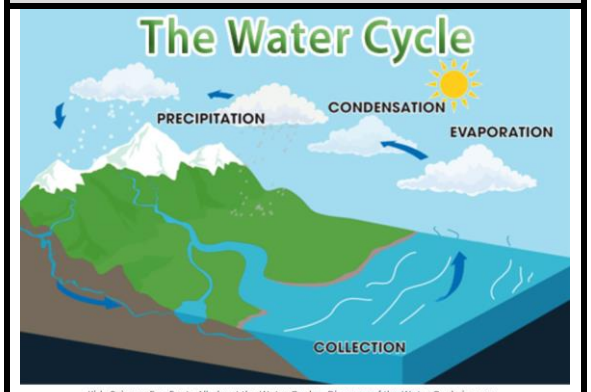
The properties of different states.



Key Learning

- ✓ I can ask relevant questions and use different types of scientific enquiries to answer them
- ✓ I can set up simple practical enquiries, comparative and fair tests
- ✓ I can make systematic and careful observations and where appropriate, take accurate measurements, using a standard units, using a range of equipment
- ✓ I can gather, record and present data in a variety of ways to help in answering questions
- ✓ I can report on findings from enquiries (oral)
- ✓ I can use results to draw simple conclusions
- ✓ I can identify differences, similarities or changes related to simple scientific ideas and processes
- ✓ I can compare and group materials together according to their classification
- ✓ I can explain why some materials change state when heated or cooled
- ✓ I can research the temperature at which materials change state
- ✓ I can make links between temperature and rate of evaporation

The Water Cycle



Kids Science Fun Facts All about the Water Cycle - Diagram of the Water Cycle image

Changing State