

Year 4 Science - States of Matter - Knowledge Organiser

Key Vocabulary

Matter - An object that takes up space is known as matter.

Solid - a solid holds its shape and has a fixed volume.

Liquid - liquid takes up the shape of the container that it is in.

Gas - A gas fills up the container it is in and can escape from an unsealed container.

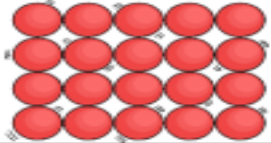
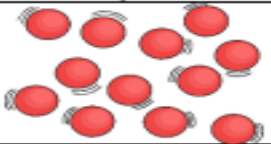

Evaporation - The changing of a liquid into a gas.

Condensation - The changing of a gas to a liquid.

Particles - All materials are made up of tiny particles which are so small we cannot see them with our eyes.

We will be learning:

- About the different properties of solid, liquids and gases.
- How objects change their state through melting and freezing.
- How to explain evaporation and condensation using practical examples.
- About the different stages of the water cycle.
- How to work scientifically when conducting experiments.

State	Particle arrangement	Particle properties
Solid		Particles are closely packed in a regular pattern. They vibrate on the spot.
Liquid		Particles are close but random. They can move over each other.
Gas		Particles are spread out and can move rapidly in all directions.

