

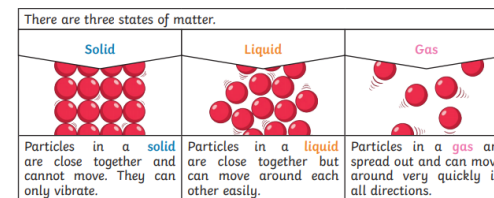
The key Science knowledge that I will know by the end of this unit will be:

- I will be able to compare and group materials together according to whether they are solids or liquids.
- I will be able to identify and explore the properties of gases.
- I will be able to observe that materials change state when they are heated or cooled.
- I will research the temperature in degrees Celsius (°C) at which materials change state.
- I will understand the process of evaporation and condensation.
- I will be able to identify the part played by evaporation and condensation in the water cycle and associate the rate of evaporation with temperature.

I will show that I can work like a Scientist by:

- To ask relevant questions and use different types of scientific enquiries to answer them.
- To use scientific evidence to answer questions or to support their findings.
- To record findings using simple scientific language, drawings, labelled diagrams and tables.
- To report on findings from enquiries, including oral and written explanations.
- To identify differences, similarities or changes related to simple scientific ideas and processes.

Science - States of Matter



What have I learnt before and when:

Year 1
Everyday materials

Year 2
Materials

What I will learn:

Year 4
States of matter

Famous Person
link -
Anders Celsius

*What are the
three states of
matter and how
do they change
from one state
to another?*

Vocabulary	Definition
Condense	Turn a gas into a liquid.
Evaporate	Turn a liquid into a gas.
Gases	Gases can spread out to completely fill the container or room they are in. They do not have any fixed shape but they do have a mass.
Liquids	Liquids take the shape of their container. They can change shape but do not change the amount of space they take up. They can flow or be poured.
Precipitation	Liquid or solid particles that fall from a cloud as rain, sleet, hail or snow.
Solids	These are materials that keep their shape unless a force is applied to them. They can be hard, soft or even squashy. Solids take up the same amount of space no matter what has happened to them.
States of matter	Materials can be one of three states: solids, liquids or gases. Some materials can change from one state to another and back again.
Water cycle	Describes the existence and movement of water on, in, and above the Earth. Earth's water is always in movement and is always changing states, from liquid to vapour to ice and back again.