

Science - States of Matter

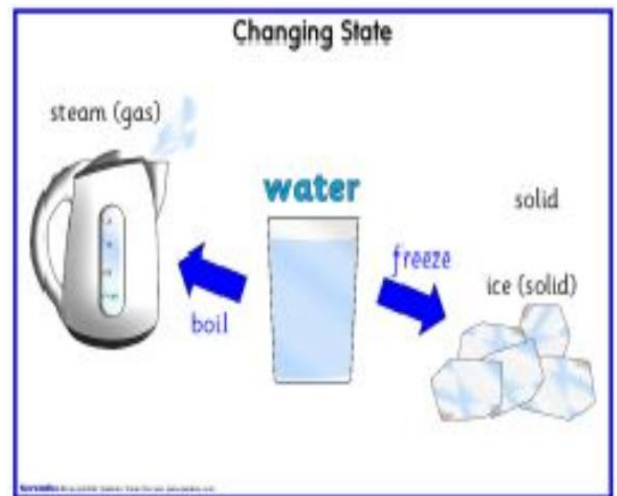
Year 4
Autumn 2

Overview

This topic examines the properties of 3 states of matter; solids, liquids and gas. We will compare and group materials together, according to whether they are solids, liquids or gases. We will then begin to investigate the differences between solids and liquids by examining and comparing the properties using simple practical enquiries and comparative and fair tests.

Key Vocabulary

Word	Definition
Matter	Any solid, liquid or gas that exists in the universe.
Solid	A substance which stays the same shape whether in a container or not.
Liquid	A substance which 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 ($^{\circ}\text{C}$).
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 Vapour	This is water that takes the form of a gas. When water is boiled, it evaporates into a water vapour.



Key knowledge

- Be able to name 3 states of matter (solids, liquid, gas).
- Compare and group materials together, according to whether they are solids, liquids or gases.
- Explain that some materials change state when they are heated or cooled.
- Measure or research the temperature at which materials change in degrees Celsius ($^{\circ}\text{C}$).
- Identify the part played by evaporation and condensation in the water cycle.

