

Year 4 Science: States of Matter



Prior Learning

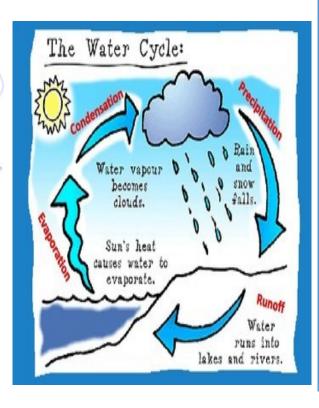
- I can explore the natural world around me, making observations and drawing pictures of what I see.
- I know about some important processes and changes in the natural world around them, including changing states of matter (ice freezing and melting).

Sticky Knowledge

- I can say whether materials are solids, liquids or gases.
- I can compare and group materials together, according to whether they are solids, liquids or gases.
- I observe that some materials change state when they are heated or cooled and find out what temperature (degrees Celsius °C) this happens at.
- I can identify the part played by evaporation and condensation in the water cycle and associate the rate of evaporation with temperature.

Liquid Solid Freezing Liquid Solid Gas

Changing States



Vocabulary	
Change of State	When a material changes to another form, i.e. a liquid changing to a solid
Condense	When a gas turns into a liquid. It sometimes forms condensation , where
Cooled	Where the temperature of a material
Evaporation	The process of turning from liquid to a gas, sometimes called a vapour.
Freeze	When a liquid is cooled until it turns
Gas	An air-like substance which expands
Heated	Where the temperature of a material
Liquid	A material that flows freely but can be measured by volume e.g. water or
Melting	When a solid changes state into a
Solid	Firm and stable in shape, not a liquid
Solidify	When a material goes hard, or when
Temperature	How hot a material is.