

Science Knowledge Organiser

States of Matter

This is chemistry.
Chemistry is the
study of
properties of
matter.

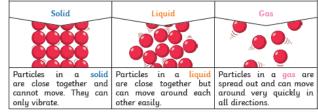
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Key Vocabulary

- solid
- liquid
- gas
- state
- melting
- melting point
- boiling
- boiling point
- evaporation
- condensation
- water cycle
- temperature

Key Knowledge

Matter is the stuff that makes up our planet and the whole universe. All matter exists in three states; solids, liquids and gases. Matter can change state depending on its temperature.





Daniel Fahrenheit

Anders Celsius

Prior Knowledge

I know the difference between an object and the material from which it is made.

I can identify and name a variety o everyday materials and compare their suitability for particular uses.

I can describe, compare and group materials according to their physical properties.

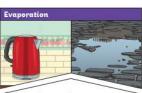
I know how the shape of solid objects can be changed.



I. Water from lakes, puddles, rivers and seas is evaporated by the sun's heat, turning it into water vapour.

2. This water vapour rises, then cools down to form water droplets in clouds (condensation).

3. When the droplets get too heavy, they fall back to the earth as rain, sleet, hail or snow (precipitation).



Evaporation occurs
when water turns into water vapour.
This happens very quickly when the
water is hot, like in a kettle, but
it can also happen slowly, like a
puddle evaporating in the warm air.

Condensation is

when water vapour is cooled down and turns into water. You can see this when droplets of water form on a window. The water vapour in the air cools when it touches the cold surface.