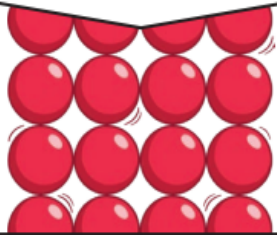


Year 4: How can chemistry explain jelly?

What is **matter**?

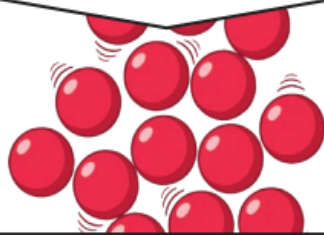
Anything that takes up space is matter. In Year 1 and 2 you used the word 'material' to explain matter. Matter is in three states (forms).

Solid



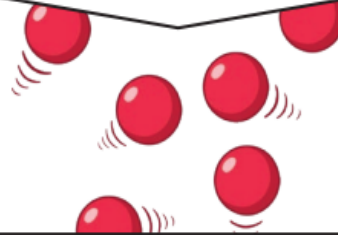
Particles in a **solid** are close together and cannot move. They can only vibrate.

Liquid



Particles in a **liquid** are close together but can move around each other easily.

Gas



Particles in a **gas** are spread out and can move around very quickly in all directions.

Melting

If ice (solid) is heated, it changes to water (liquid). This change is called melting.

Freezing

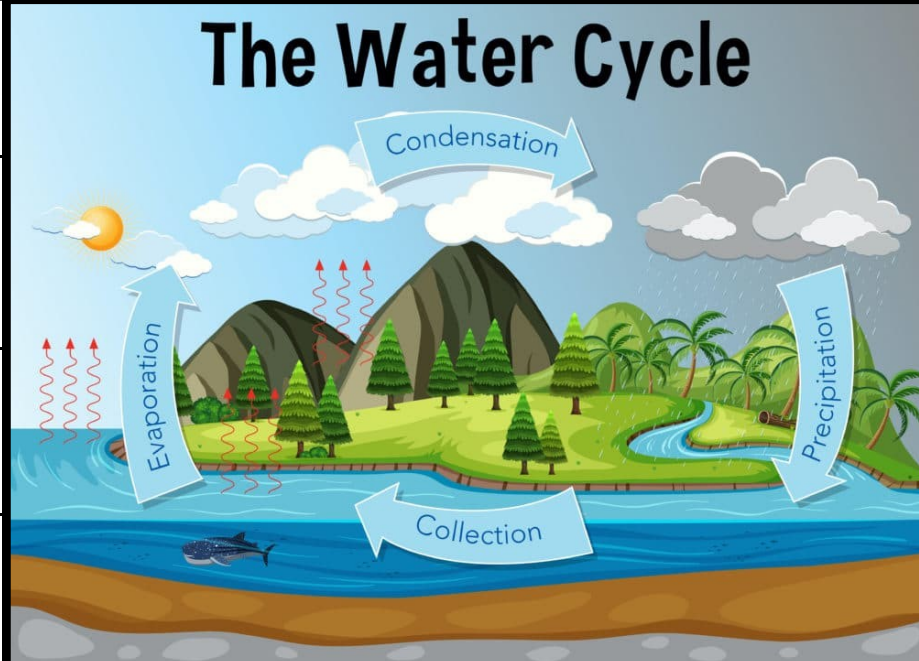
If water (liquid) is cooled, it changes to ice (solid). This change is called freezing. Water freezes at 0°C.

Evaporation

When water turns into a gas it is called evaporation. Water evaporates quicker the hotter it is.

Condensation

Condensation is when water vapour (gas) is cooled down and turns into water (liquid).



Vocabulary

boiling point	The temperature at which a liquid turns into a gas.
chemistry	An area of science that studies matter.
condensation	When a gas becomes a liquid.
evaporation	When a liquid becomes a gas.
freezing	When a liquid becomes a solid.
melting	When a solid changes into a liquid.
melting point	The temperature at which a solid turns into a liquid.
state change	When a material changes from one state to another.
temperature	The measurement of warmth or coldness.
water cycle	The journey water takes as it moves between the land and the sky.

CRC Article 17:
All children have the right to find out information providing it is safe.

