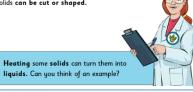


### States of Matter

#### Solids

#### Characteristics

- solids stay in one place and you can hold them in your hand.
- solids keep their shape. They do not flow like liquids.
- solids always take up the same amount of space.
- they do not spread out like gases.
- solids can be cut or shaped.





In a solid, the particles are closely packed together.

#### Liquids

#### Characteristics

- liquids can flow or be poured easily. They are not easy to hold.
- liquids change their shape depending on the container they are in.
- even when liquids change their shape, they always take up the same amount of space. Their volume stays the same.



#### Gases

#### Characteristics

- gases are **often invisible.**
- gases do not keep their shape or always take up the same amount of space. They spread out and change their shape and volume to fill up whatever container they are in.



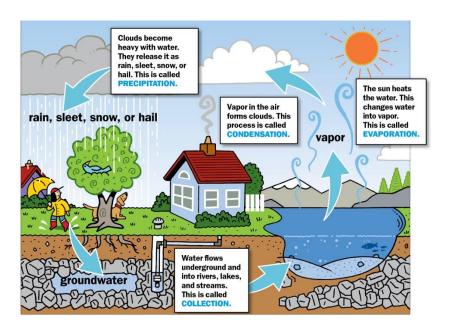
- gases can be squashed.



In a gas, the particles are widely separated and can move freely.



In a liquid the particles are close together but free to move about.



# The Water Cycle

The water cycle is the continuous journey water takes from the sea, to the sky, to the land and back to the sea.

## Key Vocabulary

solid	Firm and stable in shape; not liquid or fluid.
liquid	A substance that flows freely but is of constant volume, having a consistency like that of water or oil.
gas	A substance or matter in a state in which it will expand freely to fill the whole of a container, having no fixed shape (unlike a solid) and no fixed volume (unlike a liquid).
state	The three most familiar forms, or states, of matter are solid, liquid, and gas
particles	A particle is an extremely tiny piece of matter, and scientists believe that everything in the universe is made up of particles.
temperature	Intensity of heat present in a substance or object
boil	The process by which a liquid turns into a gas when it is heated to its boiling point.
freeze	A change of state from liquid to solid.
substance	A substance is simply a pure form of matter.
condensation	Condensation is the process by which water vapor in the air is changed into liquid water.
evaporation	Evaporation is the process that changes liquid water to gaseous water (water vapor).
precipitation	Precipitation is water released from clouds in the form of rain, freezing rain, sleet, snow, or hail.
water cycle	The water cycle shows the continuous movement of water within the Earth and atmosphere.
celsius	The Celsius scale, also known as the centigrade scale, is a temperature scale based on 0o for the freezing point of water and 100o for the boiling point of water.