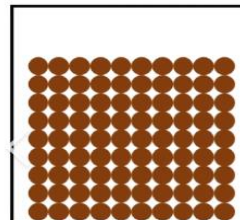




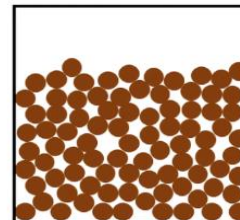
Key Vocabulary

Word	Meaning
States of matter	Materials can be one of three states: solids, liquids or gases. Some materials can change from one state to another and back again.
Solids	These are materials that keep their shape unless a force is applied to them. They can be hard, soft or even squashy.
Liquids	Liquids take the shape of their container. They can change shape but do not change the amount of space they take up. They can flow or be poured.
Gasses	Gases can spread out to completely fill the container or room they are in. They do not have any fixed shape but they do have a mass.
Water Vapour	This is water that takes the form of a gas. When water is boiled, it evaporates into a water vapour.
Melt	This is when a solid changes to a liquid.
Freeze	Liquid turns to a solid during the freezing process.
Evaporate	Turn a liquid into a gas.
Condense	Turn a gas into a liquid.
Precipitation	Liquid or solid particles that fall from a cloud as rain, sleet, hail or snow.
Volume	The amount of space that a substance or object occupies, or that is enclosed within a container.
Particles	Minute portion of matter.

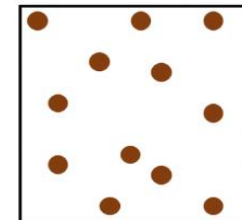
Particles in a solid, liquid and gas



Solid



Liquid



Gas



Examples of Solids, Liquids and Gasses



solid



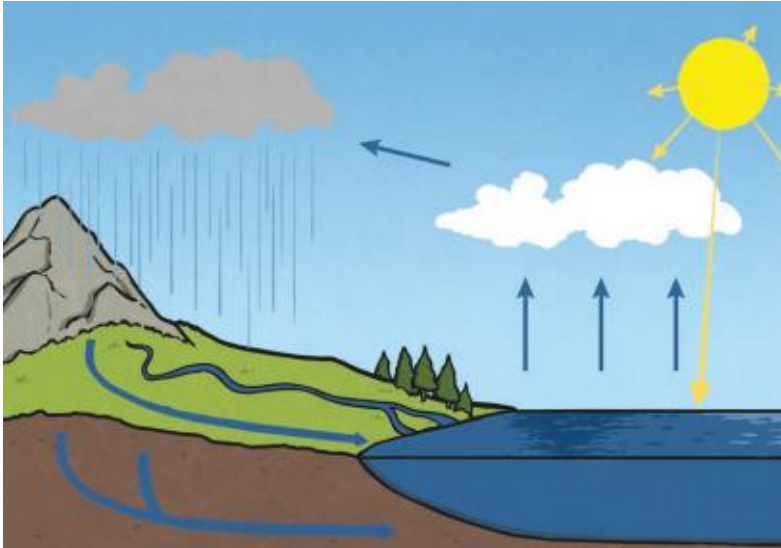
liquid



gas



The Water Cycle



1. Water from lakes, puddles, rivers, seas and oceans 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).

Can you explain what is happening in each picture?



Melting and Freezing

- A solid is heated to its melting point and it melts into a liquid.
- When you freeze a liquid, it becomes colder and colder until it becomes a solid.



Extending your learning:

[1. States of matter - Year 4 KS2 Science - BBC Bitesize](#)

2. Visit the Science Museum

[3. Film yourself making a solid change into a liquid and then back into a solid.](#)