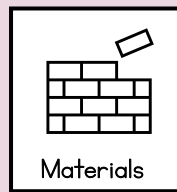


# Chemistry

## States of matter



Year 4 - Spring Term

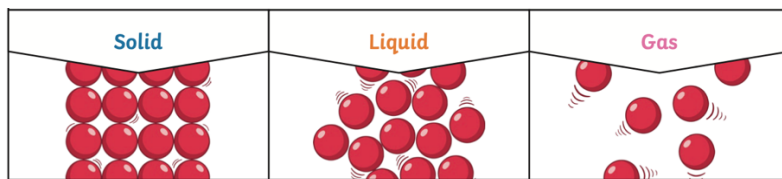
### Review:

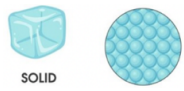
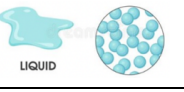

*What should I already know?*

- What temperature is and that a thermometer can be used to show it.
- That materials have different properties and how this influences the suitability of a material.

### Essential knowledge.

- There are three states of matter.



State of matter	Feature	
Solid	Are rigid and hold their shape.	 SOLID
Liquid	Do not hold their shape and form a pool not a pile.	 LIQUID
Gases	Do not hold their shape and can escape from an unsealed container.	 GAS

Some materials change state when they are heated or cooled.





- Freezing is when liquids turn to a solid.
- Melting is when solids change to a liquid.
- Evaporation is when liquids change to a gas.
- Condensation is when gases change to liquid.

### Working scientifically.

What is our enquiry type?

Observing Changes Over Time	Pattern Seeking	Identifying, Grouping & Classifying	Fair Testing	Research
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### Working scientifically skills

PLAN	Make predictions		DO	Record	
DO	Observe		REVIEW	Evaluate	

### Vocabulary

Material	What things are made from.
Solid	Has a clear shape and is hard or firm.
Liquid	Does not have a clear shape and can be poured.
Gas	Does not have a clear shape and can escape.
State	A way that a material exists.
Evaporation	Liquid changing to gas because of the temperature.
Condensation	Gas changing to liquid because of the temperature.
Water cycle	The process of water being recycled over and over again.

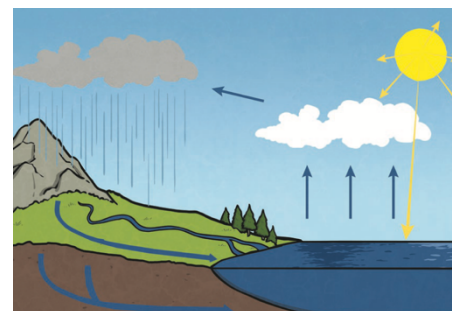


### Champion opportunity

During our learning, we will be visited by engineers to discuss how water from the water cycle is treated and used in our day-to-day life.

### Essential knowledge.

The water cycle is the path that water follows as it moves around the Earth in different states.



Changing states of matter is an important part of the water cycle because both **condensation** and **evaporation** both occur within it.