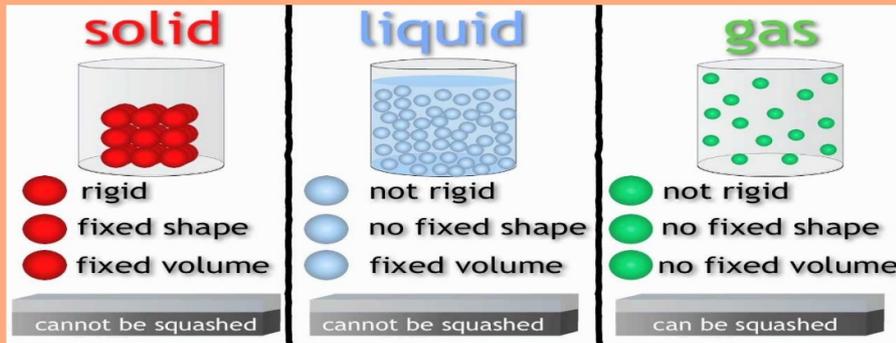


# Starter

What can these be referred to as?

Lets test our knowledge of solids, liquids and gases.



Solids, Liquids and Gases Quiz

## Recap - Evaporation and Condensation

What can you remember about evaporation and condensation?

Evaporation

Condensation

# Precipitation

Today I am learning to

- understand the process of precipitation.

I will be successful if

- I can understand the process of precipitation
- I can use my researching skills to find interesting facts on precipitation

Key Vocabulary

- precipitation
- condensation
- evaporation
- liquid
- gas
- vapour
- cooling
- gravity

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# Precipitation

Precipitation is any liquid (or frozen water) that forms in the atmosphere and falls back to the Earth.



Rain



Snow



Hailstones

How does precipitation occur?

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## How does precipitation occur?

When gas is condensed, it is converted into liquid particles. These accumulate in clouds and when they become too heavy for the clouds, they fall due to gravity. The process of liquid falling is precipitation.



*A thunderstorm with heavy precipitation*

BBC Bitsize - What is rain? 

## Have you heard of these types of clouds?

Cirrus	Thin wispy clouds formed from ice crystals at high altitudes. They never bring precipitation.	
Cirrocumulus	A broken layer of small fleecy clouds at high altitude sometimes called a mackerel sky.	
Cumulonimbus	The tallest clouds, reaching as high as 18km (twice as high as Mount Everest). They can hold more than half a million tonnes of water. They are darker and thicker and usually bring periods of continuous rain. Seen in thunderstorms.	
Nimbostratus	A low layer of uniform, dark grey cloud. It precipitates continuous rain or snow.	

Altostratus	A continuous smooth layer at medium altitude. The sun can often be seen through them.	
Stratus	A low thin horizontal grey sheet or fragmented cloud, often with rain or snow.	
Alto cumulus	Cloud formed at a medium altitude as a layer of rounded masses with a level base.	
Cumulus	Rounded masses heaped on each other above a flat base at fairly low altitude.	
Stratocumulus	A low layer of clumped or broken masses with a grey base. They bring only light precipitation.	

## Can you find out more?

Research some exciting facts around precipitation and create a PowerPoint (or poster/ any resources available) with your findings.

Can you find

- how precipitation happens?
- exciting facts about rain, hail and snow?
- exciting facts about clouds?
- places where precipitation is more or less common?
- why can precipitation be important?

## Condensation

Today I am learning to

- understand the process of condensation.

I will be successful if

- I can give examples of where condensation might take place.
- I can explain the process of condensation using scientific vocabulary.

Key Vocabulary

- condensation
- evaporation
- liquid
- gas
- vapour
- cooling
- convert
- state