

# Knowledge organiser for States of Matter

## Key vocabulary

<b>Condensing</b>	The process when a gas turns into a liquid	<b>Reversible</b>	Can be changed back to how it was before
<b>Evaporation</b>	When a liquid turns into a gas	<b>Irreversible</b>	Cannot be changed back to how it was before.
<b>Matter</b>	Another name for material	<b>Vapour</b>	Small drops of liquid that occur as a result of heating a gas or a liquid.
<b>Substance</b>	A material with certain properties and characteristics	<b>Celsius</b>	The common scale in the UK for measuring temperature.

## Key knowledge

Matter usually exists in one of three states:



Solid

Has fixed shape and volume



Liquid

Takes shape of container  
Forms horizontal surface  
Has fixed volume



Gas

Expands to fill container

## Changing state:



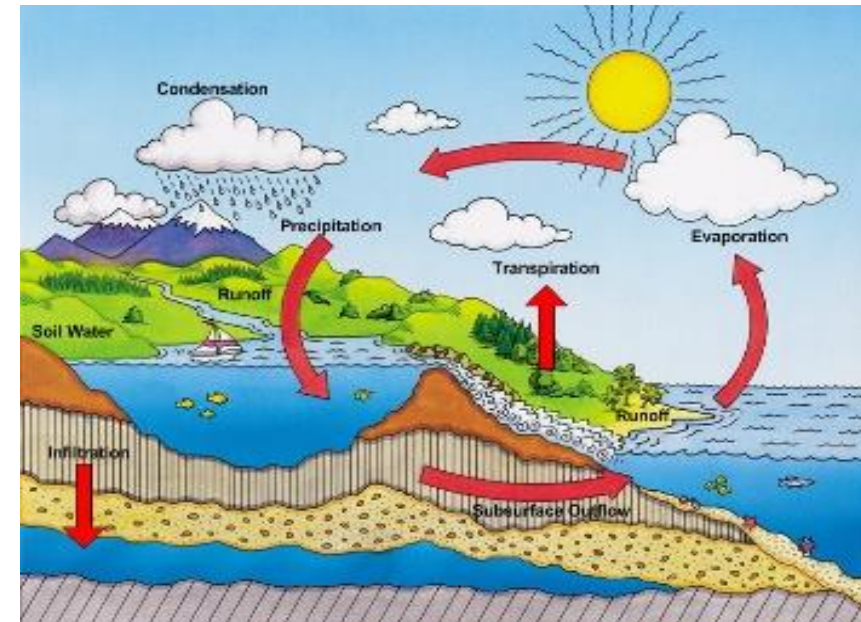
Melting



Evaporation



Water boils at exactly 100 degrees Celsius  
Different solids melt at different temperatures: ice melts at 0c whilst chocolate melts at approx. 35c  
Water freezes at 0c



## The Water Cycle

Way that water moves between being water vapour to liquid water and then back to water vapour.