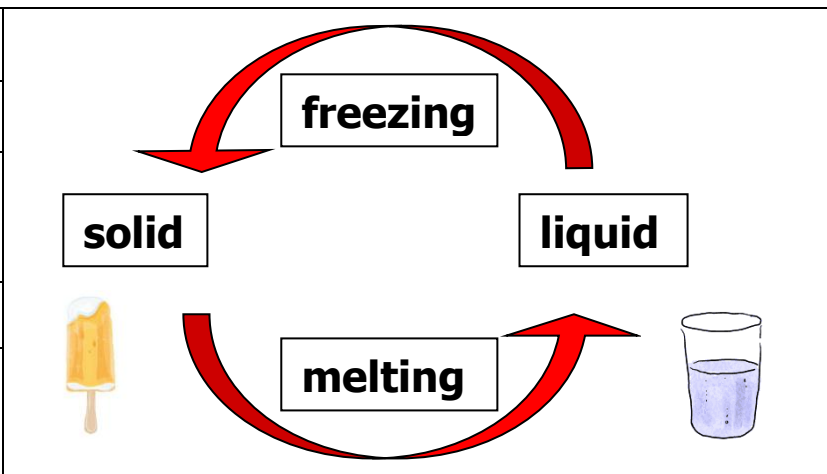


Y4: States of Matter

Glossary	
dissolve – when a solid becomes part of a liquid	
filter – to separate fine solid particles from a liquid	
sieve – to separate coarse solid particles from a liquid	
freeze – to change from a liquid into a solid	
gas – one of the three states of matter. Gases fill all available space. Water vapour is a gas.	
liquid – one of the three states of matter. Liquids pour and take on the shape of the container.	
melt – to change from a solid into a liquid	
powder – a solid made up of very small particles	
solid – one of the three states of matter. Solids keep their shape. Ice is the solid state of water.	
soluble – when a solid dissolves in water it is said to be soluble - opposite - insoluble	
solution – a liquid that has a solid dissolved in it	
state – All matter exists in one of three states – solid, liquid and gas	
suspension – a liquid containing tiny particles of solid that mix with the liquid but do not dissolve	



These vitamin tablets are **soluble**, they are **dissolving** in water. When they are completely dissolved you will be left with a clear **solution**.

The three **states of matter** are **solid**, **liquid** and **gas**.

Solid
Holds Shape
Fixed Volume

Liquid
Shape of Container
Free Surface
Fixed Volume

Gas
Shape of Container
Volume of Container

We can use a **filter** to separate fine solid particles (e.g. sand) from a liquid. This filter is made of a **funnel** and a cone of **filter paper**. The process is called **filtration**.

We can use a **sieve** to separate larger solid particles (e.g. pasta shapes, rice) from a **mixture**. This process is called **sieving**.

