

4D SOLIDS AND LIQUIDS

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

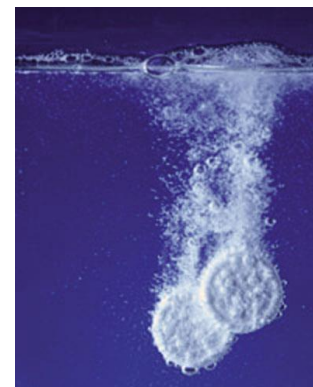
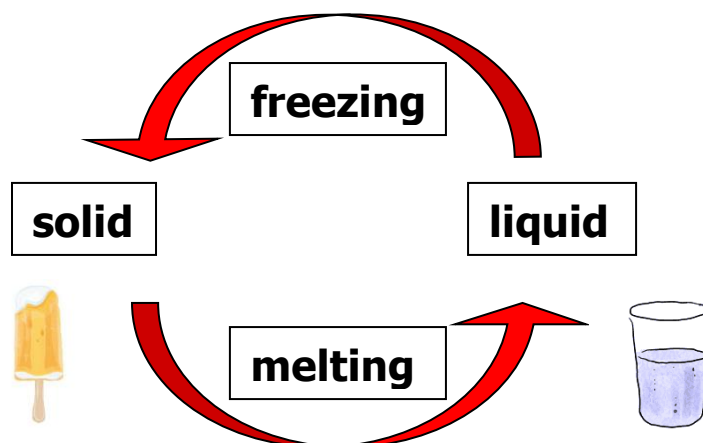
solid – one of the three states of matter. Solids keep their shape. Ice is the solid state of water.

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

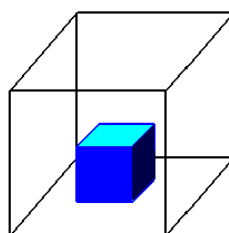
state – All matter exists in one of three states – solid, liquid and gas

suspension – a liquid containing tiny particles of solid that mix with the liquid but do not dissolve



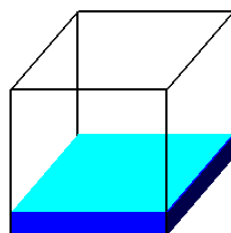
These vitamin tablets are **soluble**, they are **dissolving** in water. When they are completely dissolved you will be left with a clear **solution**.

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



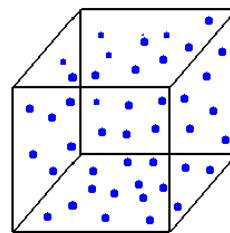
Solid

Holds Shape
Fixed Volume



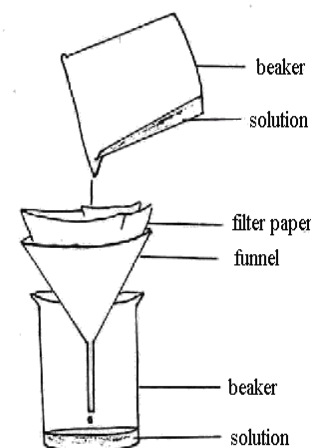
Liquid

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**.

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