Key Vocabulary	
solids	One of the three states of matter. Solid particles are very close together, meaning solids, such as wood and glass, hold their shape.
liquids	This state of matter can flow and take the shape of the container because the particles are more loosely packed than solids and can move around each other. Examples of liquids include water and milk.
gases	One of the three states of matter. Gas particles are further apart than solid or liquid particles and they are free to move around. Examples of gases are oxygen and helium.
melting	The process of heating a solid until it changes into a liquid.
freezing	When a liquid cools and turns into a solid.
evaporating	When a <mark>liquid</mark> turns into a gas or vapour.
condensing	When a gas, such as water vapour, cools and turns into a liquid.

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chromatography	A scientific technique used to separate and find out which chemicals are in a mixture. This could be drugs or poisons.
DNA	DNA is the material that carries all the genetic information about how a living thing looks and functions.

Crime Scene Investigation

Crime Scene Investigators search for and analyse evidence left behind at crime scenes. CSI technicians carry out scientific tests on the evidence they find in order to link it to a suspect or prove a suspect didn't commit a crime. Technicians use skills from chemistry, biology, physics and geology. Chromatography, fingerprints and DNA are also an important part of a technician's job.

liquid

particles



DO NOT CROSS

Changes of State

solid

particles



liquid

The gas condenses.

The liquid evaporates



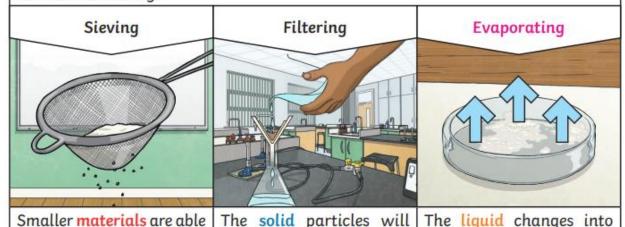
Key Knowledge

to fall through the holes in

the sieve, separating them

from larger particles.

Reversible changes, such as mixing and dissolving solids and liquids together, can be reversed by:



get caught in the filter

paper but the liquid will

be able to get through.

Dissolving Sugar is A solution is made when a soluble solid particles are mixed material. liquid with particles. Materials that will dissolve soluble. known are Sand Materials that won't dissolve is an are known as insoluble. A insoluble suspension is when the particles don't dissolve. material.



a gas, leaving the solid

particles behind.