

# SEPARATING MIXTURES

## SIEVING

Can separate large particles from small particles.

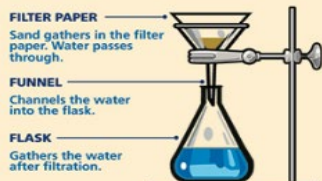
SIEVE

- The sand and rock mixture is shaken through.
- The small holes in the sieve let the sand particles through and prevent the larger rocks from passing through.



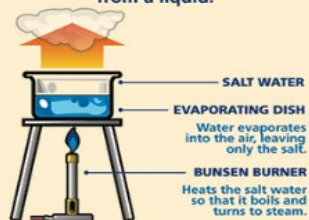
## FILTRATION

Can separate solids that are insoluble from a liquid.



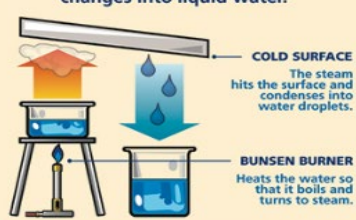
## EVAPORATION

Can separate solids that are soluble from a liquid.



## CONDENSATION

Condensing is when water vapour changes into liquid water.



There are three types of matter: solids, liquids and gasses. They are different due to their particle structure.

**Solid** – Solid particles are compact and tight together to form a hard and impenetrable surface.

**Liquid** – Liquid particles are touching but have space between them. A liquid take the shape of its container.

**Gas** – Gas particles have space between them so they move around freely.

<b>Absorbent</b>	A material that can soak up a liquid.
<b>Conductor</b>	Allows heat/energy to pass through the object.
<b>Dissolve</b>	A process which allows a material to disappear and mix with a liquid.
<b>Insoluble</b>	A material that does not dissolve in water.
<b>Insulator</b>	Does not allow heat/energy to pass through the object so it will retain the heat.
<b>Magnetic</b>	Attracts to a magnetic (relating to magnetism).
<b>Mixture</b>	The name of a liquid if a material does not dissolve in the liquid.
<b>Opaque</b>	An object which you cannot see through.
<b>Permeable</b>	An object which allows liquid or gas to pass through it.
<b>Reflective</b>	An object that can reflect light similar to a mirror.
<b>Rigid</b>	An object that is unable to bend and is not flexible.
<b>Rusting</b>	A reaction to metal exposed to oxygen.
<b>Flammable</b>	Easily set on fire.
<b>Soluble</b>	A material that dissolves in water.
<b>Solution</b>	The name of a liquid once a material has dissolved in the liquid.
<b>Translucent</b>	An object which allows light to pass through it but you can only partially see through the object.
<b>Transparent</b>	An object which allows light to pass through it so you can see through the object.