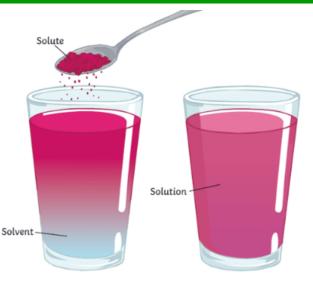
What changes can materials go through?

Vocabulary	Definition
dissolving	When a solid completely mixes in a liquid.
soluble	Solids that dissolve in liquids, so that you can no longer see any bits.
insoluble	Solids that do not dissolve in liquid.
solution	A mixture of a liquid with a dissolved solid.
saturation	when a liquid (solvent) cannot dissolve anymore of the solid (solute).
thermal	Relating to heat
reversible change	Changes that are not forever and can be switched back, e.g. dissolving, melting, freezing.
non-reversible change	Changes that cannot be reversed back to their original state e.g. burning, rusting and chemical reactions.
conductor	Allows heat or electricity to pass through
insulator	Doesn't allow heat or electricity to pass through

Reversible changes Dissolving Melting and freezing Rusting Chemical reaction—mixing vinegar and bicarbonate of soda

Dissolving and solubility



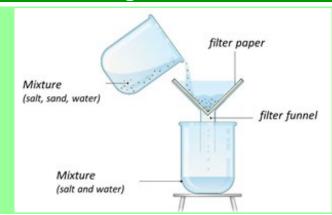
- The solute is the solid that dissolves
- The solvent is the liquid that dissolves the solute
- They form a solution
- When a solvent cannot dissolve any more of the solute, the solution becomes **saturated**.
- Crystallisation is when a solute is separated from the solvent, leaving solid crystals behind.

Separating materials

Filtering

Separates insoluble solids from liquids. The solid particles get caught in the filter paper and the water goes through.

Reversing the process to get back the original materials.



Evaporating

Separates soluble solids from liquids. Reverses the process of dissolving.

Sieving

Separates solids of different sizes.



