

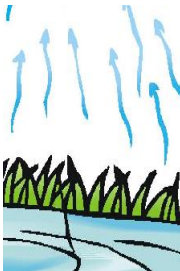






# Physical and chemical changes: Reversible and Irreversible Changes

<h1>Glossary</h1>	 <p>A <b>sieve</b> separates materials</p>	 <p>A <b>mixture</b> can be separated in different ways, e.g. sieving</p>	 <p><b>Condensation</b></p>	 <p><b>Powder</b></p>	<p><b>solubility</b> – a property of a material describing how well it will dissolve in a liquid</p> <p><b>solid</b> – one of the three states of matter. Solids keep their shape. Ice is the solid state of water. Solids may be in the form of powders made up of very small particles</p>
<p><b>condensation</b> – the process of change from a gas into a liquid to <b>condense</b> - verb</p>	 <p>Some medicines <b>dissolve</b> in water, this means they are <b>soluble</b>. The tablet is the <b>solute</b></p>	<p>This salad dressing contains solids held in <b>suspension</b></p> 	<p><b>Evaporation</b> is a change from liquid to gas</p> 	<p>Separating fine solid particles from a liquid can be done using a <b>filter</b></p> 	<p><b>soluble</b> – when a solid dissolves in water it is said to be soluble - opposite - <b>insoluble</b></p>
<p><b>evaporation</b> – the process of change from a liquid into a gas to <b>evaporate</b> - verb</p>		<p><b>solute</b> – the name given to a substance dissolved in a liquid</p>			
<p><b>filter</b> – to separate fine solid particles from a liquid</p>		<p><b>solution</b> – a liquid that has a solid dissolved in it</p>			
<p><b>Chemical change:</b> an <b>irreversible change</b>; a chemical reaction in which the products cannot turn back into the reactants</p>		<p><b>solvent</b> – a liquid in which a solid will dissolve</p>			
<p><b>liquid</b> – one of the three states of matter. Liquids pour and take on the shape of the container.</p>		<p><b>state</b> – All matter exists in one of three states – solid, liquid and gas</p>			
<p><b>melt</b> – to change from a solid into a liquid</p>	 <p>This is a <b>solution</b> of instant coffee and water</p>	 <p><b>Impurities</b> cause colour in gems.</p>	 <p>A <b>solvent</b> is a liquid in which a solid will dissolve, <b>Solubility</b> is how well it dissolves</p>	<p>A diamond is a <b>pure substance</b></p> 	<p><b>suspension</b> – a liquid containing tiny particles of solid that mix with the liquid but do not dissolve</p>
<p><b>mixture</b> – a composite of different materials that can be separated by filtering, sieving, evaporation etc.</p>					
<p><b>powder</b> – a solid made up of very small particles</p>					
<p><b>Physical change-</b> a <b>reversible</b> change where the products can change back to reactants</p>					
<p><b>sieve</b> – to separate coarse solid particles from a liquid</p>					
 <p>All matter is either in a <b>solid, liquid or gas state</b></p>					