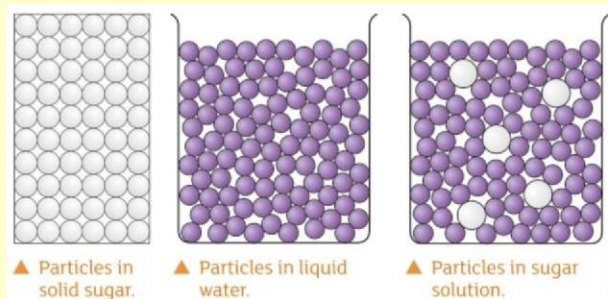
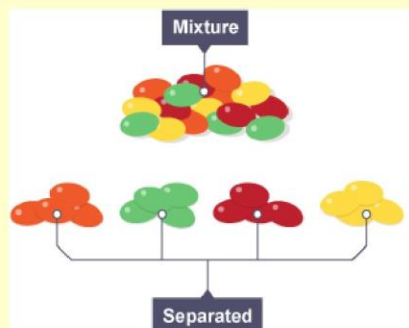


**Section 1: Mixtures**

Key Word	Definition
1. Mixture	A mixture is made up of substances that are <b>not chemically joined</b> together.
2. Pure Substances	A substance is pure if it has <b>no other substances mixed</b> in with it. It has a sharp melting point.
3. Impure Substances	A substance is impure if it has <b>different substances mixed</b> in with it. It does not have a sharp melting point.

**Section 2: Solutions**

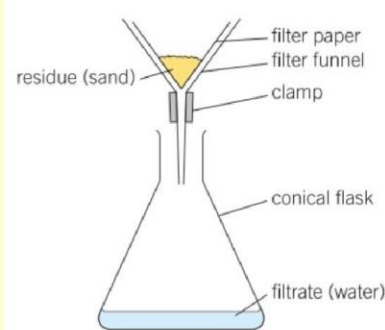
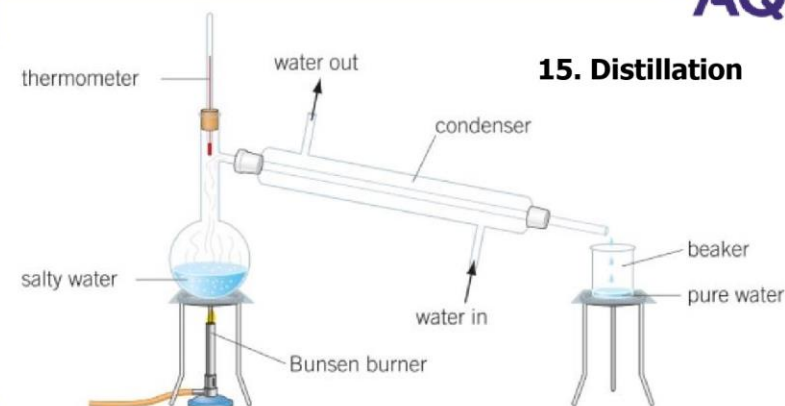
Key Word	Definition
4. Solution	A mixture of a liquid with a solid or a gas. All parts of the mixture are the same.
5. Solvent	The liquid in which a solid or gas dissolves.
6. Solute	The solid or gas that dissolves in a liquid.
7. Dissolve	The mixing of a substance (the solute) with a liquid (the solvent) to make a solution.

**Section 3: Solubility**

Key Word	Definition
8. Saturated Solution	A solution in which no more solute can dissolve.
9. Solubility	The solubility of a substance is the mass that dissolves in 100g of water.
10. Soluble	The <b>greater the mass</b> of a substance you <b>can dissolve</b> in 100g of water, the more soluble the substance.
11. Insoluble	Substances that <b>cannot dissolve</b> in water are insoluble.

**Section 4: Filtration**

Key Word	Definition
12. Filtration	A way of <b>separating</b> pieces of <b>solid</b> that are <b>mixed</b> with a <b>liquid</b> or solution by filtration.
13. Filtrate	The <b>liquid</b> or <b>solution</b> that <b>collects</b> in the container after the mixture has passed through the filter paper.
14. Residue	The <b>solid</b> that <b>collects</b> in the filter paper.

**12. Filtration****15. Distillation****Section 5: Evaporation and Distillation**

Key Word	Definition
15. Distillation	A technique that uses <b>evaporation</b> and <b>condensation</b> to obtain a <b>solvent</b> from a <b>solution</b> .
16. Evaporation	The change of state from <b>liquid</b> to a <b>gas</b> , when particles leave the <b>surface</b> of the liquid.
17. Condensation	The change of state from a <b>gas</b> to a <b>liquid</b> .
18. Process of distillation	<ul style="list-style-type: none"> <li>Water in the salt solution boils</li> <li>Steam leaves the solution</li> <li>Steam travels through the condenser and cools down</li> <li>The steam condenses to form liquid water</li> <li>Liquid water drips into the beaker</li> </ul>

**Section 6: Chromatography**

Key Word	Definition
19. Chromatography	A technique to <b>separate mixtures</b> of <b>liquids</b> that are soluble in the same solvent.
20. Chromatogram	An <b>image</b> obtained from <b>chromatography</b> .