

## Pure and Impure Substances

	<u>Working towards Mastery (W)</u>	<u>Meeting Mastery (M)</u>	<u>Beyond Mastery (B)</u>
Pure and Impure	<ul style="list-style-type: none"><li>- A pure substance consists of only one type of element or compound and has a fixed melting and boiling point. Mixtures may be separated due to differences in their physical properties.</li><li>- The method chosen to separate a mixture depends on which physical properties of the individual substances are different.</li></ul>	<ul style="list-style-type: none"><li>- Explain how substances dissolve using the particle model.</li><li>- Use the solubility curve of a solute to explain observations about solutions.</li><li>- Use evidence from chromatography to identify unknown substances in mixtures.</li><li>- Choose the most suitable technique to separate out a mixture of substances.</li></ul>	<ul style="list-style-type: none"><li>- Analyse and interpret solubility curves.</li><li>- Suggest a combination of methods to separate a complex mixture and justify the choices.</li><li>- Evaluate the evidence for identifying a unknown substance using separating techniques.</li></ul>