

Year 7: ASK Yourself!

Subject: Science

Unit: 7.1 – Mixing, Dissolving and Separating

	Launching 1-2	Developing 3-4	Progressing 5-6	Mastering 7-9
S kills				
	I need to be able to use techniques to separate mixtures.	I can partially use techniques to separate mixtures. I can partially analyse and interpret solubility curves	I can confidently analyse and interpret solubility curves. I can confidently suggest a combination of methods to separate a complex mixture and justify the choices.	I can expertly evaluate the evidence to identify an unknown substance using separating techniques.
K nowledge				
	I need to know that a pure substance consists of only one type of element or compound and has a fixed melting and boiling point.	I partially know that mixtures may be separated due to differences in their physical properties. I partially know how basic separating techniques work.	I confidently know the method chosen to separate a mixture depends on which physical properties of the individual substances are different. I confidently know the most suitable technique to separate out a mixture of substances.	I understand how substances dissolve using the particle model. I understand and can apply the solubility curve of a solute to explain observations about solutions. I can apply evidence from chromatography to identify unknown substances in mixtures.