

Barnsley Academy – (Year and Subject) Curriculum
Scheme of Work – 2023-24

Term – Week ...				
	1	2	3	4
Lesson Focus	Elements and Compounds	Mixtures	Separation by Distillation	Chromatography
Prerequisite Knowledge	8CP- Elements and compounds	7CP- Particle model and separation	8- CP- Distillation 7CP- Distillation	7CP/ 8CP separating mixtures
Core Knowledge	<p>Elements- A substance that contains one type of atom</p> <p>Compound – A substance that contains two or more different elements that are chemically bonded</p>	<ul style="list-style-type: none"> ▪ Define, identify and describe mixtures ▪ Explain the steps in the separation of mixtures of soluble and insoluble substances ▪ Explain how mixtures of soluble and insoluble substances are represented and recognised 	<ul style="list-style-type: none"> • Name the equipment used in distillation • Describe how to separate a mixture of two or more liquids • Apply particle theory to distillation 	<ul style="list-style-type: none"> • Describe the process of chromatography • Carry out the chromatography of inks • Interpret chromatograms
Expert Model /Guided Practice/Agreed Approach (Procedural Knowledge)	<ul style="list-style-type: none"> - Model how to name compounds - Model steps for conservation of mass 	<ul style="list-style-type: none"> - Identifying mixtures - Steps for crystallisation and Filtration 	<ul style="list-style-type: none"> - Practical demonstration of distillation - 	<ul style="list-style-type: none"> - Steps for Chromatography - Steps to interpret chromatography results
Independent Practice	<p>IP1- Elements and compounds exam question</p> <p>IP2- Naming compounds</p> <p>IP3- Conservation of mass exam question</p>	<p>IP1- Identifying mixtures exam question</p> <p>IP2- Filtration and Crystallisation exam question</p> <p>IP3- Practical steps (Time dependent)</p>	<p>IP1- Distillation equipment exam question</p> <p>IP2- Describe explain the steps for the distillation of Ink and water</p> <p>IP3- Distillation exam questions</p>	<p>IP1- Method for Chromatography exam Q</p> <p>IP2- Complete practical on Chromatography</p> <p>IP3- Interpreting results from chromatography exam q</p>

Assessment (Informal/Formal)	Independent practice tasks – exam question incorporated. Learning checks on WB Students to self- assess all tasks. Teacher to circulate and check for misconceptions.	<ul style="list-style-type: none"> - Independent practice tasks - Whiteboard checks - Targeted questioning 	<ul style="list-style-type: none"> - Independent practice tasks - Whiteboard checks Targeted questioning	Independent practice tasks – exam question incorporated. Learning checks on WB Students to self- assess all tasks. Teacher to circulate and check for misconceptions.
Resources				
Specific SEN(D)/EAL support		<ul style="list-style-type: none"> - Colour highlighted key steps in the expert model - Answers shown on the board that match the questions 	<ul style="list-style-type: none"> - Sentence starters 	