Barnsley Academy – (Year 7 – 7CP week 3) Curriculum
Scheme of Work – 2023-24

Term 1 Week 3				
	1	2	3	4
Lesson Focus	Big Picture – success criteria.	Rock salt investigation	Distillation	Chromatography
Prerequisite Knowledge	What knowledge are they building on (previous units/years)? Informs Do Now/Retrieval.	Particle model Separation techniques from KS2 Soluble vs insoluble	Changes of state Particle model	Soluble vs insoluble
Core Knowledge	Key terms and agreed definitions, any other key information essential to students, succeeding. In practical subjects this can include skills.	Identify the parts of a mixture to be separated and write a method for this Name key pieces of equipment and processes for separation to be successful. Carry out practical using understanding of separation methods.	Explain how simple and fractional distillation works Identify hazards and risks and suggest how to reduce them Identify the components of a Liebig condenser and give reasons for this being more suitable than simple distillation equipment.	Describe how to separate a mixture using chromatography Separate solutions using chromatography. Interpret chromatograms to describe the composition of mixtures.
Expert Model /Guided Practice/Agreed Approach (Procedural Knowledge)	Name the steps that student need to take – agreed department approach.	Visual demo of rock salt practical under visualiser	Video of distillation or teacher demo under visualiser talking through each step	Teacher demo of practical under visualiser
Independent Practice	The task and reference back to the Big Picture Slide	IP 1 – Plan a method and improve with a partner. IP 2 – use your plan to write a method. IP3 – Carry out practical. IP4 – calculate yield and suggest improvements to potential errors in methods	IP1 – Describe how distillation works. IP2 – Complete risk assessment for practical IP3 – Function of components of Liebig condenser	IP1 – carry out the chromatography practical and leave to dry. IP2 – Write a method for chromatography. IP3 – Interpret chromatography results – exam question

Assessment (Informal/Formal)	Circulation/live feedback/self-assessment/class assessment/whole class feedback (marking cycle)/quiz.	Circulation/live feedback/self-assessment/class assessment/whole class feedback (marking cycle)/quiz. KPI	Circulation/live feedback/self-assessment/class assessment/whole class feedback (marking cycle)/quiz.	Circulation/live feedback/self-assessment/class assessment/whole class feedback (marking cycle)/quiz. Exam question
Resources	(Hyperlink)	https://www.youtube.com/watch?v=reknfPHgGG4	**https://www.youtube.com/watch?v=eQlnHr9g6Io**	
Specific SEN(D)/EAL support	Overview for the lesson – can be repeated strategies	LA – scaffolded IP 2 for writing a method	IP1 – HA and LA version of task	IP2– HA and LA version of task