

CHAPTER 8A ALL STUDENTS-CHEMICAL ANALYSIS

Prior learning: Knowledge of separation techniques (C1 and C7) and purity of compounds (C4)				
Lesson Number	AQA Spec	Title	Content	Assessment
Assessment	Check your Progress			
WSFG 1	4.1.1.2, 4.8.1.1	Key concepts: Pure substances	<ul style="list-style-type: none"> Describe, explain and exemplify processes of separation Suggest separation and purification techniques for mixtures. Distinguish pure and impure substances using melting point and boiling point data. 	
2a	4.8.1.2	Formulations	<ul style="list-style-type: none"> Identify formulations given appropriate information. Explain the particular purpose of each chemical in a mixture. Explain how quantities are carefully measured for formulation. 	
2b Triple only	4.10.4.2	Production and use of NPK fertilisers	<ul style="list-style-type: none"> Describe how to make a fertiliser in the laboratory. Explain how fertilisers are produced industrially. Compare the industrial production with laboratory preparation. 	
3	4.8.2.1, 4.8.2.2, 4.8.2.3, 4.8.2.4	Demo of gas tests for all	<ul style="list-style-type: none"> Recall the tests for four common gases. Identify the four common gases using these tests. Explain why limewater can be used to detect carbon dioxide. 	
4	4.8.1.4, 4.8.1.4	Chromatography	<ul style="list-style-type: none"> Explain how to set up chromatography paper. Distinguish pure from impure substances. Interpret chromatograms Calculate R_f values 	Assessment 1 25 mark multiple choice (forms) on lessons 1-4

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5	<p>Maths skills: Use an appropriate number of significant figures</p> <p>Required practical: Investigate how paper chromatography can be used in forensic science to identify an ink mixture used in a forgery</p>	<ul style="list-style-type: none"> • Measure distances on chromatograms • Calculate R_f values • Record R_f values to an appropriate number of significant figures 	
Assessment	<p>End of Chapter test for Combined – Triple students will need to complete 8b) before sitting the End of unit test.</p>		<p>Assessment 2 exampro H and F (15 marks)</p>
<p>Where will we use these ideas again: This is the first part of C8 so all relevant in C8b (Triple only)</p>			