

Prior learning: Knowledge of separation techniques (C1 and C7) and purity of compounds (C4); all C8a content; Balanced equations from C3 and C4				
Lesson	AQA Spec	Title	Content	Assessment
Assessment	Check your Progress			
WSFG 1 (see below)	4.8.3.1	Flame tests	<ul style="list-style-type: none"> Carry out flame-test procedures. Identify the colours of flames of ions. Identify species from the results of the tests.	
2	4.8.3.2	Metal hydroxides	<ul style="list-style-type: none"> Recognise the precipitate colour of metal hydroxides. Explain how to use sodium hydroxide to test for metal ions. Write balanced equations for producing insoluble metal hydroxides.	
3	4.8.3.3, 4.8.3.4, 4.8.3.5	Tests for anions	<ul style="list-style-type: none"> Identify the tests for carbonates. Explain the tests for halides and sulfates. Identify anions and cations from the results of tests.	
4		Required practical: Use chemical tests to identify the ions in unknown single ionic compounds	<ul style="list-style-type: none"> Describe how to carry out experiments safely using the correct manipulation of apparatus for the qualitative analysis of ions. Make and record observations using flame tests and precipitation methods. Identify unknown ions in chemical compounds.	Assessment 2 exampro Higher (15 marks)
Part of lesson 1	4.8.3.6-7	Instrumental methods and Flame emission spectroscopy	<ul style="list-style-type: none"> State examples of instrumental techniques eg: mass spectrometry, flame emission spectroscopy Describe flame emission spectroscopy. Identify the advantages of instrumental methods compared with the chemical tests. Interpret an instrumental result using a reference set, limited to flame emission spectroscopy 	Assessment 1 25 mark multiple choice (forms) on lessons 1-6
Assessment	End of Chapter test for Triple students will incorporate both 8a and 8b units			EoU test Triple Higher only (40 marks)
Where will we use these ideas again: In the analysis of water samples (C10)				