



**Chemistry Department - Separate Science
Key Stage Four**

NAME: _____

Topic 5: Qualitative Analysis

Use traffic lights to assess what you know now, and again at the end of this topic	Start	End
1) I know the flame tests for the Na^+ , K^+ , Ca^{2+} and Mg^{2+} ions and can use them to distinguish between the different ions		
2) I can use the precipitation reactions of $\text{NaOH}(\text{aq})$ with aqueous Mg^{2+} , Zn^{2+} , Fe^{2+} , Fe^{3+} , and Cu^{2+} ions and can use these reactions to distinguish between the different ions		
3) I can write word and balanced symbol equations for the reactions in 3)		
4) I know how to test for NH_4^+ , Cl^- , Br^- , I^- , CO_3^{2-} and SO_4^{2-} ions and the observations of each test		
5) I can write word and balanced symbol equations for the reactions in 4)		
6) I know how to test for the gases oxygen, hydrogen, carbon dioxide and ammonia		
7) I know how to separate mixtures and can describe how to use chromatography, distillation, filtration and distillation		

Your teacher will read through the above statements with you, and elaborate on them slightly. Use the following key to colour the boxes to show how confident you are with your knowledge and understanding at the start of the unit. Hopefully when you revisit the sheet on the completion of the unit you will have made significant progress!

Green - I fully understand and could explain this to other people with ease.

Amber - I can remember some of this, but not enough to fully explain it.

Red - I do not understand this at all, or have never heard of it.

