Edexcel iGCSE Chemistry 4CH0 Learning Plan

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| **Section B11: Separating and analysing** | | |
| Specification | Resources | Assessment |
| 1.7 describe experimental techniques for the separation of mixtures, including simple distillation, fractional distillation, filtration, crystallisation and paper chromatography  1.8 explain how information from chromatograms can be used to identify the composition of a mixture.  2.37 describe tests for the cations: i Li+, Na+, K+, Ca2+ using flame tests ii NH4+, using sodium hydroxide solution and identifying the ammonia evolved iii Cu2+, Fe2+ and Fe3+, using sodium hydroxide solution  2.38 describe tests for the anions: i Cl-, Br- and I-, using dilute nitric acid and silver nitrate solution ii SO42-, using dilute hydrochloric acid and barium chloride solution iii CO32-, using dilute hydrochloric acid and identifying the carbon dioxide evolved  2.39 describe tests for the gases: i hydrogen ii oxygen iii carbon dioxide iv ammonia v chlorine. | Video: Section 2 Lesson 5; Section 1 Lesson 1 – 14.30 to 19.07  Powerpoint: Section 2 Lesson5; Section 1 Lesson 1 - slides 49 to 55  Textbook:  Page 89 - Separating mixtures  Page 92 - Collecting and identifying gases  Page 93 - testing for water and for ions  Page 97 - Chapter checklist | Textbook  Page 97 – 98 End of Chapter Questions  Answers to textbook Ch B11 Questions - pdf  Talking paper – Edexcel Chemistry Section 11 Separating and analysing (mp4 video)  Section B11 Question – Separating and Analysing. (pdf)  Section B11 Question – mark scheme. (pdf) |

**Jim Clark video clips:** <http://www.chemguide.co.uk/igcse/chapters/chapter11.html>

Videos – www.igcsesciencecourses.com

Textbook Ref: Edexcel International GCSE Chemistry Student Book - Clark

DVD Video Clips – see resource DVD in textbook.