Edexcel International GCSE Chemistry 4CH1 Learning Plan

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| **Unit: 1. Principles of Chemistry** | | **Chapter: 2. Elements, Compounds and Mixtures** | | **Hours: 4** |
| Content coverage | Learning outcomes | Resources | Assessment | |
| **Section 1: Principles of chemistry**  (b) Elements, compounds and mixtures | 1.8 understand how to classify a substance as an element, a compound or a mixture  1.9 understand that a pure substance has a fixed melting and boiling point, but that a mixture may melt or boil over a range of temperatures  1.10 describe these experimental techniques for the separation of mixtures:   * simple distillation * fractional distillation * filtration   crystallisation.  1.11 understand how a chromatogram provides information about the composition of a mixture  1.12 understand how to use the calculation of Rf values to identify the components of a mixture  1.13 *practical: investigate paper chromatography using inks/food colourings* | Video: Section 1 Lesson 1 - 12:05 🡪 14.25  Section 1 Lesson 5 - 00:40 🡪 02:33  Section 1 Lesson 4 (3.2) - 16:25 🡪 end.  Powerpoint: Section 1 Lesson 1 – Slides 42🡪 47.  Section 1 Lesson 4 – Slides 4🡪7  Section A3 – Bonding: Slides 66 🡪67; Slides 74 🡪 80  Textbook pages:  Page 14 – Elements  Page 15 – Compounds  Page 15 – Mixtures  Page 15 – Simple differences between mixtures and compounds  Page 16 – Melting point and boiling point  Page 16 – Separation of mixtures  Page 20 – Using paper chromatography in analysis | Page 22 – 23 Qs (1) to (6)  Chapter 2 Answers to textbook questions  Unit 1-2 Elements, Compounds and Mixtures exam question - pdf  Unit 1-2 Elements, Compounds and Mixtures exam question mark scheme – pdf  Section A4 - Talking paper video | |

Videos – [www.igcsesciencecourses.com](http://www.igcsesciencecourses.com)

Textbook Ref: Edexcel International GCSE (9-1) Chemistry Student Book - Pearson (Clark, Owen and Yu)