Edexcel International GCSE Chemistry 4CH1 Learning Plan

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Unit: 1. Principles of Chemistry** | | **Chapter: 4. The Periodic Table** | | **Hours: 3** |
| Content coverage | Learning outcomes | Resources | Assessment | |
| **Section 1: Principles of chemistry**  (d) The Periodic Table | Students will be assessed on their ability to:  1.18 understand how elements are arranged in the Periodic Table:   * in order of atomic number * in groups and periods   1.19 understand how to deduce the electronic configurations of the first 20 elements from their positions in the Periodic Table  1.20 understand how to use electrical conductivity and the acid-base character of oxides to classify elements as metals or non-metals  1.21 identify an element as a metal or a non-metal according to its position in the Periodic Table  1.22 understand how the electronic configuration of a main group element is related to its position in the Periodic Table  1.23 understand why elements in the same group of the Periodic Table have similar chemical properties  1.24 understand why the noble gases (Group 0) do not readily react. | Video: Section 2 Lesson 1 – The Periodic Table and Group 1 Elements. Section 2 Lesson 2 (part) – Group 7 elements  Powerpoint: Section 2 Lesson 1 – The Periodic Table and Group 1 Elements. Section 2 Lesson 2 (part) – Group 7 elements. Slides from beginning to 49.  Textbook pages:  Page 30 – The Periodic Table  Page 31 – The Periodic Table and the number of protons, neutrons and electrons  Page 31 – The arrangement of the electrons in an atom  Page 33 – Electronic configurations and the Periodic Table  Page 34 – The Noble gases  Page 34 – Metals and non-metals in the Periodic Table  Page 35 – Differences between the properties of metals and non-metals | Pages 36 – 37 Qs (1) to (8)  Chapter 4 Answers to textbook questions  Unit 1-4 The Periodic Table exam question - pdf  Unit 1-4 The Periodic Table exam question mark scheme – pdf  Section B12 - 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)