Edexcel iGCSE Chemistry 4CH0 Learning Plan

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| **Section B12: The Periodic Table** | | |
| Specification | Resources | Assessment |
| 2.1 understand the terms group and period  2.2 recall the positions of metals and non-metals in the Periodic Table  2.3 explain the classification of elements as metals or non-metals on the basis of their electrical conductivity and the acid-base character of their oxides  2.4 understand why elements in the same group of the Periodic Table have similar chemical properties  2.5 understand that the noble gases (Group 0) are a family of inert gases and explain their lack of reactivity in terms of their electronic configurations.  2.6 describe the reactions of these elements with water and understand that the reactions provide a basis for their recognition as a family of elements  2.7 describe the relative reactivities of the elements in Group 1  2.8 explain the relative reactivities of the elements in Group 1 in terms of distance between the outer electrons and the nucleus.  2.9 recall the colours and physical states of the elements at room temperature  2.10 make predictions about the properties of other halogens in this group 2.11 understand the difference between hydrogen chloride gas and hydrochloric acid  2.12 explain, in terms of dissociation, why hydrogen chloride is acidic in water but not in methylbenzene  2.13 describe the relative reactivities of the elements in Group 7  2.14 describe experiments to demonstrate that a more reactive halogen will displace a less reactive halogen from a solution of one of its salts  2.15 understand these displacement reactions as redox reactions. | 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:  Page 99 - The Modern Periodic Table  Page 101 - The noble gases  Page 102 - The alkali metals  Page 105 - The halogens  Page 109 - Transition metals  Page 110 - Chapter Checklist | Textbook  Page 110 – 111 End of Chapter Questions  Answers to textbook Ch B12 Questions – pdf  Talking paper – Edexcel Chemistry Section B12 The Periodic Table - video  Section B12 Question – The Periodic Table. (pdf)  Section B12 Question – mark scheme. (pdf) |

**Jim Clark video clips:** <http://www.chemguide.co.uk/igcse/chapters/chapter12.html>

Videos – www.igcsesciencecourses.com

Textbook Ref: Edexcel International GCSE Chemistry Student Book - Clark

DVD Video Clips – see resource DVD in textbook.