Edexcel iGCSE Chemistry 4CH0 Learning Plan

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| **Section C17: Metals** | | |
| Specification | Resources | Assessment |
| 5.1 explain how the methods of extraction of the metals in this section are related to their positions in the reactivity series  5.2 describe and explain the extraction of aluminium from purified aluminium oxide by electrolysis, including: i the use of molten cryolite as a solvent and to decrease the required operating temperature ii the need to replace the positive electrodes iii the cost of the electricity as a major factor  5.3 write ionic half-equations for the reactions at the electrodes in aluminium extraction  5.4 describe and explain the main reactions involved in the extraction of iron from iron ore (haematite), using coke, limestone and air in a blast furnace  5.5 explain the uses of aluminium and iron, in terms of their properties. | Video: Section 5 – Lesson 1 – Industrial Chemistry – Aluminium and Iron  Powerpoint: Section 5 – Lesson 1  Textbook: Ch 17: Metals  Page 139 – Extracting metals from their ores  Page 140 – Aluminium  Page 142 – Iron  Page 143 – Properties and uses of the different kinds of iron  Page 144 – Rusting of iron  Page 146 – End of Chapter Checklist  Edexcel iGCSE Chemistry Student Checklist Section C17.doc | Textbook  Page 146 – Questions 1 to 4  Textbook answers.pdf  Page 147-148; End of Section C Questions  Answers to textbook End of Section C questions.pdf  Talking paper – Edexcel Chemistry Section C17  Section C17 Exam Question –. (pdf)  Section C17 Exam Question – mark scheme. (pdf) |

**Jim Clark video clips:** <http://www.chemguide.co.uk/igcse/chapters/chapter17.html>

Videos – www.igcsesciencecourses.com

Textbook Ref: Edexcel International GCSE Chemistry Student Book - Clark

DVD Video Clips – see resource DVD in textbook.