Edexcel International GCSE Chemistry 4CH1 Learning Plan

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| **Unit: 2. Inorganic Chemistry** | | **Chapter: 15. Extraction and Uses of Metals** | | **Hours: 3** |
| Content coverage | Learning outcomes | Resources | Assessment | |
| **Section 2: Inorganic chemistry**  (e) Extraction and uses of metals | **2.22C know that most metals are extracted from ores found in the Earth’s crust and that unreactive metals are often found as the uncombined element**  **2.23C explain how the method of extraction of a metal is related to its position in the reactivity series, illustrated by carbon extraction for iron and electrolysis for aluminium**  **2.24C be able to comment on a metal extraction process, given appropriate information**  ***detailed knowledge of the processes used in the extraction of a specific metal is not required.***  **2.25C explain the uses of aluminium, copper, iron and steel in terms of their properties *the types of steel will be limited to low-carbon (mild), high-carbon and stainless***  **2.26C know that an alloy is a mixture of a metal and one or more elements, usually other metals or carbon**  **2.27C explain why alloys are harder than pure metals.** | Video: Section 5 – Lesson 1 – Industrial Chemistry – Aluminium and Iron  Powerpoint: Section 5 – Lesson 1  Textbook pages:  Page 160 – Extracting metals from their ores  Page 161 – Methods of extraction and the reactivity series  Page 163 – Alloys  Page 163 – Properties and uses of some metals  Page 164 – Properties and uses of different kinds of steel | Pages 165 – 166 Qs (1) to (6)  Chapter 15 Answers to textbook questions  Unit 2-15 Extraction and Uses of Metals exam question - pdf  Unit 2-15 Extraction and Uses of Metals exam question mark scheme – pdf  Section C17 - 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)