Edexcel iGCSE Chemistry 4CH0 Learning Plan

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| **Section B13: Electrolysis** | | |
| Specification | Resources | Assessment |
| 1.48 understand that an electric current is a flow of electrons or ions  1.49 understand why covalent compounds do not conduct electricity  1.50 understand why ionic compounds conduct electricity only when molten or in solution  1.51 describe experiments to distinguish between electrolytes and nonelectrolytes 1.52 understand that electrolysis involves the formation of new substances when ionic compounds conduct electricity  1.53 describe experiments to investigate electrolysis, using inert electrodes, of molten salts such as lead(II) bromide and predict the products  **1.54 describe experiments to investigate electrolysis, using inert electrodes, of aqueous solutions such as sodium chloride, copper(II) sulfate and dilute sulfuric acid and predict the products**  1.55 write ionic half-equations representing the reactions at the electrodes during electrolysis  **1.56 recall that one faraday represents one mole of electrons**  **1.57 calculate the amounts of the products of the electrolysis of molten salts and aqueous solutions.** | Video: Section 1 Lesson 5 – Metallic Crystals and Electrolysis – 02:35 to end.  Powerpoint: Section 1 Lesson 4 – Slides 8 to end.  Textbook: Chapter 13: Electrolysis  Page 112 - Some important background.  Page 113 – The electrolysis of molten compounds.  Page 115 – The electrolysis of aqueous solutions.  Edexcel iGCSE Chemistry Checklist Section B13.doc | Textbook  Page 119 – Questions 1 to 4  Textbook answers - pdf  Talking paper – Edexcel Chemistry Section B13 Electrolysis  Section B13 Exam Question –. (pdf)  Section B13 Exam Question – mark scheme. (pdf) |

**Jim Clark video clips:** <http://www.chemguide.co.uk/igcse/chapters/chapter13.html>

Videos – www.igcsesciencecourses.com

Textbook Ref: Edexcel International GCSE Chemistry Student Book - Clark

DVD Video Clips – see resource DVD in textbook.