Edexcel iGCSE Chemistry 4CH0 Learning Plan

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| **Section B9: Acids** | | |
| Specification | Resources | Assessment |
| **4.1** describe the use of the indicators litmus, phenolphthalein and methyl orange to distinguish between acidic and alkaline solutions  **4.2** understand how the pH scale, from 0–14, can be used to classify solutions as strongly acidic, weakly acidic, neutral, weakly alkaline or strongly alkaline  **4.3** describe the use of universal indicator to measure the approximate pH value of a solution  **4.4** define acids as sources of hydrogen ions, H+, and alkalis as sources of hydroxide ions, OH–  **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 | Video: Section 4 Lesson 1 – beginning to 5:01, then 16:12 to end (titrations)  Powerpoint: Section 4 Lesson 1 – from beginning to slide 16, then 52 to end (titrations)  Textbook:  Page 70 – pH and Indicators  Page 71 - Reacting acids with metals  Page 73 - Reacting acids with metal oxides.  Page 74 - Reacting acids with metal hydroxides.  Page 75 - Reacting acids with carbonates.  Page 76 - Theories of acids and bases  Page 79 - Chapter checklist | Textbook  Page 79 – 80 End of chapter questions  Answers to textbook Ch B9 Questions - pdf  Talking paper – Edexcel Chemistry Section B9 - Acids  Section B9 Question – Acids. (pdf)  Section B9 Question – mark scheme. (pdf) |

**Jim Clark video clips: http://www.chemguide.co.uk/igcse/chapters/chapter9.html**

Videos – www.igcsesciencecourses.com

Textbook Ref: Edexcel International GCSE Chemistry Student Book - Clark

DVD Video Clips – see resource DVD in textbook.