Edexcel International GCSE Chemistry 4CH1 Learning Plan

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|  **Unit: 2. Inorganic Chemistry** | **Chapter: 16. Acids, Alkalis and Titrations** | **Hours: 4** |
| Content coverage | Learning outcomes | Resources | Assessment |
| **Section 2: Inorganic chemistry**(f) Acids, alkalis and titrations | Students will be assessed on their ability to:2.28 describe the use of litmus, phenolphthalein and methyl orange to distinguish between acidic and alkaline solutions2.29 understand how to use the pH scale, from 0–14, can be used to classify solutions as strongly acidic (0–3), weakly acidic (4–6), neutral (7), weakly alkaline (8–10) and strongly alkaline (11–14)2.30 describe the use of universal indicator to measure the approximate pH value of an aqueous solution2.31 know that acids in aqueous solution are a source of hydrogen ions and alkalis in aqueous solution are a source of hydroxide ions.2.32 know that alkalis can neutralise acids**2.33C describe how to carry out an acid-alkali titration.** | 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 pages:Page 167 – pH and indicatorsPage 168 – Measuring pHPage 169 – AcidsPage 169 – BasesPage 169 – Other alkaline solutionsPage 170 – Reacting acids with bases and alkalisPage 170 – Titration | Page 172 Qs (1) to (5)Chapter 16 Answers to textbook questionsUnit 2 – 16 Acids, Alkalis and Titrations exam question - pdfUnit 2 – 16 Acids, Alkalis and Titrations exam question mark scheme – pdfSection B9 - 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)