Edexcel International GCSE Chemistry 4CH1 Learning Plan

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| **Unit: 1. Principles of Chemistry** | | **Chapter: 6. Chemical Formulae, Equations and Calculations Part 2** | | **Hours: 4** |
| Content coverage | Learning outcomes | Resources | Assessment | |
| **Section 1: Principles of chemistry**  (e) Chemical formulae, equations and calculations | **1.34C understand how to carry out calculations involving amount of substance, volume and concentration (in mol/dm3) of solution.**  **1.35C understand how to carry out calculations involving gas volumes and the molar volume of a gas (24** **dm3 and 24** **000** **cm3 at room temperature and pressure (rtp)).** | Video: Section 1 – Lesson 4 – Reacting Masses - beginning to 04:20  Video: Section 1 Lesson 2 – 03:27 🡪 05:28, 12:32 🡪 end  Powerpoint: Section 1 Lesson 2 – slides 10 🡪 17, 49 🡪 end  Textbook pages:  Page 64 – Calculations involving gas volumes  Page 65 – Units of volume  Page 65 – The volume occupied by 1 mole of a gas  Page 65 – Calculations with molar volume  Page 67 – A problem involving making hydrogen  Page 67 – Working with solution concentrations  Page 69 – Calculations with equations involving solutions  Page 70 – Calculations from titrations  Page 70 – The standard calculation  Page 71 – Reversing the calculations | Pages 72 to 74 Qs (1) to (18)  Chapter 6 Answers to textbook questions  Unit 1-6 Chemical Formulae Part 2 exam question - pdf  Unit 1-6 Chemical Formulae Part 2 exam question mark scheme – pdf  Unit 1-6 Titration Calculations exam question - pdf  Unit 1-6 Titration Calculations exam question mark scheme – pdf  Section E23 - Talking paper video  Section E26 - 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)