Edexcel International GCSE Chemistry 4CH1 Learning Plan

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|  **Unit: 4. Organic Chemistry** | **Chapter: 22. Introduction to Organic Chemistry** | **Hours: 4** |
| Content coverage | Learning outcomes | Resources | Assessment |
| **Section 4: Organic chemistry**(a) Introduction | Students will be assessed on their ability to:4.1 know that a hydrocarbon is a compound of hydrogen and carbon only4.2 understand how to represent organic molecules using empirical formulae, molecular formulae, general formulae, structural formulae and displayed formulae4.3 know what is meant by the terms homologous series, functional group and isomerism.4.4 understand how to name compounds relevant to this specification using the rules of International Union of Pure and Applied Chemistry (IUPAC) nomenclature - *students will be expected to name compounds containing up to six carbon atoms*4.5 understand how to write the possible structural and displayed formulae of an organic molecule given its molecular formula4.6 understand how to classify reactions of organic compounds as substitution, addition and combustion*. Knowledge of reaction mechanisms is not required.* | Video: This introduction to Organic Chemistry is generally covered between Section 3 Lesson 1 (Organic Chemistry, the Alkanes) and Lesson 2 (The Alkenes, Ethanol)Powerpoint: This introduction to Organic Chemistry is generally covered between Section 3 powerpoints – Lessons 1 and 2Textbook pages:Page 256 – HydrocarbonsPage 256 – Types of formula for organic moleculesPage 258 – naming organic compoundsPage 261 – Structural isomerismPage 263 – A quick introductory look at the alcoholsPage 264 – Some chemical reactions of organic compounds | Page 265 – 267 Qs. (1) to (5)Chapter 22 Answers to textbook questionsUnit 4-22 Introduction to Organic Chemistry exam question - pdfUnit 4-22 Introduction to Organic Chemistry exam question mark scheme – pdfSection D18 - 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)