Edexcel International GCSE Chemistry 4CH1 Learning Plan

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **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 only  4.2 understand how to represent organic molecules using empirical formulae, molecular formulae, general formulae, structural formulae and displayed formulae  4.3 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 formula  4.6 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 2  Textbook pages:  Page 256 – Hydrocarbons  Page 256 – Types of formula for organic molecules  Page 258 – naming organic compounds  Page 261 – Structural isomerism  Page 263 – A quick introductory look at the alcohols  Page 264 – Some chemical reactions of organic compounds | Page 265 – 267 Qs. (1) to (5)  Chapter 22 Answers to textbook questions  Unit 4-22 Introduction to Organic Chemistry exam question - pdf  Unit 4-22 Introduction to Organic Chemistry exam question mark scheme – pdf  Section 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)