Edexcel International GCSE Chemistry 4CH1 Learning Plan

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| **Unit: 4. Organic Chemistry** | | **Chapter: 24. Alkanes** | | **Hours: 3** |
| Content coverage | Learning outcomes | Resources | Assessment | |
| **Section 4: Organic chemistry**  (c) Alkanes | Students will be assessed on their ability to:  4.19 know the general formula for alkanes  4.20 explain why alkanes are classified as saturated hydrocarbons  4.21 understand how to draw the structural and displayed formulae for alkanes with up to five carbon atoms in the molecule, and to name the unbranched-chain isomers  4.22 describe the reactions of alkanes with halogens in the presence of ultraviolet radiation, limited to mono-substitution;  *knowledge of reaction mechanisms is not required.* | Video: Section 3 – Lesson 1 – Organic Chemistry, The Alkanes. Timeline 10.01 to end.  Powerpoint: Chemistry - Section 3 – Lesson 1 – Slides 32 to end.  Textbook pages:  Page 278 – Isomers of Alkanes  Page 278 – Homologous series  Page 279 – Two reactions of the alkanes | Page 281 Qs (1) to (5)  Chapter 24 Answers to textbook questions  Unit 4-24 Alkanes exam question - pdf  Unit 4-24 Alkanes exam question mark scheme – pdf  Section D19 - 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)