Edexcel International GCSE Chemistry 4CH1 Learning Plan

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| **Unit: 4. Organic Chemistry** | | **Chapter: 28. Esters** | | **Hours: 3** |
| Content coverage | Learning outcomes | Resources | Assessment | |
| **Section 4: Organic chemistry**  (g) Esters | **Students will be assessed on their ability to:**  **4.38C know that esters contain the functional group**    **4.39C know that ethyl ethanoate is the ester produced when ethanol and ethanoic acid react in the presence of an acid catalyst**  **4.40C understand how to write the structural and displayed formulae of ethyl ethanoate**  **4.41C understand how to write the structural and displayed formulae of an ester, given the name or formula of the alcohol and carboxylic acid from which it is formed and vice versa**  **4.42C know that esters are volatile compounds with distinctive smells and are used as food flavourings and in perfumes**  **4.43C practical: prepare a sample of an ester such as ethyl ethanoate.** | Video: Section 3 Lesson 4 Esters  Powerpoint: Section 3 Lesson 4 - Esters  Textbook pages:  Page 298 – Making a simple ester: ethyl ethanoate  Page 298 – Drawing and naming esters  Page 299 – Uses of esters | Page 301 Qs. (1) to (5)  Chapter 28 Answers to textbook questions | |

Videos – [www.igcsesciencecourses.com](http://www.igcsesciencecourses.com)

Textbook Ref: Edexcel International GCSE (9-1) Chemistry Student Book - Pearson (Clark, Owen and Yu)