

Year 12 Chemistry Learning Programme 5

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| <p>The LORIC skill focus for this LP is: COMMUNICATION. The Moral Virtues focus for this LP are: COURAGE and HUMILITY. Courage - Acting with bravery and overcoming fears. Humility - Having a modest view of oneself.</p> | | <p>Literacy:</p> <ul style="list-style-type: none"> Capital letters must be used at the start of sentences and for the first letter of proper nouns Full stops must be used at the end of a sentence Question marks must be used at the end of a question Apostrophes should only be used for possession or omission Days of the week and months must be spelled correctly Key words must be spelled correctly |
| <p>What will I be learning about in this Learning Programme? How to synthesis organic compounds using various synthetic routes.</p> <p>Where have I seen this learning before? You have learnt about alkanes, alkenes, alcohols and organic reactions in LP3 and 4.</p> <p>What could I use it for? Multi step synthesis of organic compounds in Yr13.</p> | | |
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| <p>In LP5.1, I will know:</p> <p>how to describe hydrolysis of haloalkanes in a substitution reactions; how to describe the mechanism of nucleophilic substitution in the hydrolysis.</p> | <p>13/05/24 - (WK 1)</p> <p>Key Vocabulary</p> <p>Halogen alkanes</p> | <p>Homework</p> <p>PPQ on substitution reactions</p> |
| <p>In LP5.2, I will know:</p> <p>how to explain the production of halogen radicals by the action of ultraviolet (UV) radiation on CFCs in the upper atmosphere; how to explain the impacts of halogen radicals on The Ozone layer.</p> | <p>20/05/24 - (WK 2)</p> <p>Key Vocabulary</p> <p>Radical</p> | <p>Homework</p> <p>Revision quiz on halogen radicals</p> |
| <p>In LP5.3, I will know:</p> <p>how to list and describe the techniques and procedures for use of Quick fit apparatus including for distillation and heating under reflux.</p> <p>Extended Task.</p> | <p>03/06/24 - (WK 1)</p> <p>Key Vocabulary</p> <p>Quick fit apparatus</p> | <p>Homework</p> <p>PPQ on techniques and procedures</p> |
| <p>In LP5.4, I will know:</p> <p>how to describe preparation and purification of an organic liquid PAG; how to describe an organic molecule containing several functional groups and make a prediction of properties and reactions.</p> | <p>10/06/24 - (WK 2)</p> <p>Key Vocabulary</p> <p>Synthetic routes</p> | <p>Homework</p> <p>Revision quiz on functional groups</p> |
| <p>In LP5.5, I will know:</p> <p>how to revise for my end of year assessment.</p> | <p>17/06/24 - (WK 1)</p> <p>Key Vocabulary</p> | <p>Homework</p> <p>Revision</p> |
| <p>In LP5.6, I will know:</p> <p>how to complete my end of year assessment; how to review my end of year assessment.</p> <p>Extended Task.</p> | <p>24/06/24 - (WK 2)</p> <p>Key Vocabulary</p> | <p>Homework</p> <p>Revision</p> |
| <p>In LP5.7, I will know:</p> <p>how to describe an organic molecule containing several functional groups two-stage synthetic routes for preparing organic compounds; how to identify the key functional groups of a variety of compounds.</p> | <p>01/07/24 - (WK 1)</p> <p>Key Vocabulary</p> <p>Carboxylic Acids</p> | <p>Homework</p> <p>Synthetic routes task</p> |
| <p>In LP5.8, I will know:</p> <p>how to use mass spectrometry for identification of peaks; how to recognise key fragmentation peaks.</p> | <p>08/07/24 - (WK 2)</p> <p>Key Vocabulary</p> <p>Ketone</p> | <p>Homework</p> <p>Spectrometry task</p> |
| <p>Resources to support learning: MaChem guy videos, knockhardy ppts, Revision resources on TEAMS</p> | | |
| <p>FFET Award Challenge for this Learning Programme: Make a revision resource for my yr12 learning, LORIC SKILL – Communication, Moral Virtues – Humility and Honesty</p> | | |

PRT Task 1

PRT Task 2