

Year 11 Chemistry Learning Programme 2

<p>The LORIC skill focus for his LP is: ORGANISATION The Moral Virtues focus for this LP are: COMPASSION and HONESTY Compassion - the quality of feeling pity and concern for the sufferings or misfortunes of others. Honesty - the quality of being truthful.</p> <p>What will I be learning about in this Learning Programme? The properties and reactions of different organic compounds, How natural and synthetic polymers are formed.</p> <p>Where have I seen this learning before? Structure of Alkanes from LP1. DNA from Biology.</p> <p>What could I use it for? Organic chemistry forms a large part of the A level chemistry course which then leads onto degree study in Chemistry. This leads into careers in the petrochemical industry.</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>In LP2.1, I will know: 21/10/24 - (WK 2)</p> <p>how to describe reactions between alkenes and hydrogen, water (steam), or a halogen; how to draw the structural and displayed formulae for the first four primary alcohols. How to describe the reactions of alcohols using word equations.</p>	<p>Key Vocabulary</p> <p>Alcohols</p>	<p>Homework</p> <p>Retrieval Questions</p>
<p>In LP2.2, I will know: 04/11/24 - (WK 1)</p> <p>how to predict the structure for primary alcohols when the number of carbons are given. How to write balanced symbol equations for alcohol reactions; the reactions of carboxylic acids with metal carbonates and with alcohols. How to make an ester.</p>	<p>Key Vocabulary</p> <p>Carboxylic acid</p>	<p>Homework</p> <p>PPQ</p>
<p>LP2 RLW, I will: 11/11/24 - (WK 2)</p> <p>review my learning, recalling and applying key knowledge, and focus on closing any gaps in my knowledge.</p>		
<p>In LP2.3, I will know: 18/11/24 - (WK 1)</p> <p>how to explain the processes of addition and condensation polymerisation in detail including balanced equations; how to explain the effect of conditions and reactants on the polymer formed.</p> <p>Extended Task.</p>	<p>Key Vocabulary</p> <p>Polymerisation</p>	<p>Homework</p> <p>Retrieval Questions</p>
<p>In LP2.4, I will know: 25/11/24 - (WK 2)</p> <p>how to compare the structures of starch and cellulose and link to their functions. How amino acids form proteins; the main structure of DNA.</p>	<p>Key Vocabulary</p> <p>Natural polymers</p>	<p>Homework</p> <p>PPQ</p>
<p>In LP2.5, I will know: 02/12/24 - (WK 1)</p> <p>how to interpret a chromatogram to identify unknown substances; calculate R_f values from given data;</p>	<p>Key Vocabulary</p> <p>Chromatography</p>	<p>Homework</p> <p>Retrieval Questions</p>
<p>In LP2.6, I will know: 09/12/24 - (WK 2)</p> <p>the tests for the common gases and tests and observations for negative ions; how to identify unknown compounds using a series of ions tests; how to describe the main processes of flame emission spectroscopy and interpret results from flame emission spectroscopy when data is given.</p> <p>Extended Task.</p>	<p>Key Vocabulary</p> <p>Chemical Analysis</p>	<p>Homework</p> <p>PPQ</p>
<p>In LP2.7, I will know: 16/12/24 - (WK 1)</p> <p>what my key strengths and weaknesses are in my science studies so far as a result of my mock exams.</p>	<p>Key Vocabulary</p>	<p>Homework</p>
<p>Resources to support learning: Resource booklet, Knowledge organiser, BBC GCSE Bitesize, Free GCSE Science videos on YOUTUBE. COGNITO Science</p>		
<p>FFET Award Challenge for this Learning Programme: LP2 Year11 Science: Complete a practice paper independently</p>		

PRT Task 1

PRT Task 2