

Year 11 Chemistry

Learning Programme 4

<p>The LORIC skill focus for his LP is: INITIATIVE.</p> <p>The Moral Virtues focus for this LP are: INTEGRITY and GRATITUDE.</p> <p>Integrity - Having strong moral principles.</p> <p>Gratitude - Feeling and expressing thanks.</p> <p>What will I be learning about in this Learning Programme?</p> <p>How the earth's atmosphere has developed and how humans are impacting the atmosphere. How humans are using the earth's resources and evaluate the environmental impact of this usage.</p> <p>Where have I seen this learning before?</p> <p>Chromatography at KS3, Alloys and materials at KS3 and bonding and structure in Yr10.</p> <p>What could I use it for?</p> <p>Testing for chemical substances is a required practical skill for A level chemistry and Applied Science at KS5.</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 LP4.1, I will know:</p> <p>how to successfully complete my mock exam and identify key gaps in knowledge and understanding; the processes of Phyto mining and bioleaching.</p>	<p>10/03/25 - (WK 2)</p> <p>Key Vocabulary</p> <p>Bioleaching</p>	<p>Homework</p> <p>Exam Questions based on LCA</p>
<p>In LP4.2, I will know:</p> <p>how different corrosion prevention techniques work; how to evaluate an alloy in terms of its properties and uses; how thermosetting plastics and thermosoftening plastics are different in terms of structure and bonding. Compare quantitatively the physical properties of glass and clay ceramics, polymers, composites, and metals.</p>	<p>17/03/25 - (WK 1)</p> <p>Key Vocabulary</p> <p>Corrosion</p>	<p>Homework</p> <p>Exam questions based on corrosion and alloys</p>
<p>In LP4.3, I will know:</p> <p>be able to explain the key aspects of the Haber Process and the importance of The Haber Process in fertiliser manufacture.</p> <p>Extended Task.</p>	<p>24/03/25 - (WK 2)</p> <p>Key Vocabulary</p> <p>Haber Process</p>	<p>Homework</p> <p>Exam question based on Haber Process</p>
<p>In LP4.4, I will know:</p> <p>how to reduce, reuse and recycle to reduce our carbon footprint; how to explain the life cycle assessment of a product.</p>	<p>31/03/25 - (WK 1)</p> <p>Key Vocabulary</p> <p>Life Cycle Assessment</p>	<p>Homework</p> <p>Exam question based on life cycle assessment.</p>
<p>In LP4.5, I will know:</p> <p>how to revise for paper 1 content.</p>	<p>21/04/25 - (WK 2)</p> <p>Key Vocabulary</p>	<p>Homework</p>
<p>In LP4.6, I will know:</p> <p>how to revise for paper 1 content.</p> <p>Extended Task.</p>	<p>28/04/25 - (WK 1)</p> <p>Key Vocabulary</p>	<p>Homework</p>
<p>In LP4.7, I will know:</p> <p>how to revise for paper 2 content.</p>	<p>05/05/25 - (WK 2)</p> <p>Key Vocabulary</p>	<p>Homework</p>
<p>Resources to support learning:</p> <p>Knowledge organiser, topic booklet, Cognito science videos on YouTube, GCSE Bitesize.</p>		
<p>FFET Award Challenge for this Learning Programme:</p> <p>LP4 Year 11 Science: Complete a Practice paper independently.</p>		

PRT Task 1

PRT Task 2