

Year 10 Chemistry Combined Learning Programme 4

<p>The LORIC skill focus for this LP is: INITIATIVE. The Moral Virtues focus for this LP are: INTEGRITY and GRATITUDE. Integrity - Having strong moral principles. Gratitude - Feeling and expressing thanks.</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? The key properties of covalent, metallic and carbon based compounds. Learn how to approach quantitative chemistry based problems.</p>			
<p>Where have I seen this learning before? Atoms and Elements in KS3</p> <p>What could I use it for? Used lots A level Chemistry and the basis of Chemical Engineering.</p>			
<p>In LP4.1, I will know: 04/03/24 - (WK 1)</p> <p>how to draw and explain covalent bonding between non metals; how to explain the key properties of covalent compounds, both giant and simple covalent substances.</p>		<p>Key Vocabulary</p> <p>Covalent Bonding</p>	<p>Homework</p> <p>Retrieval Questions from LP3</p>
<p>In LP4.2, I will know: 11/03/24 - (WK 2)</p> <p>how to revise our learning from Y10 for the LP4 assessment</p>		<p>Key Vocabulary</p> <p>Covalent Bonding</p>	<p>Homework</p> <p>Revision for assessment</p>
<p>In LP4.3, I will know: 18/03/24 - (WK 1)</p> <p>how to explain the key chemical and physical properties of the different allotropes of carbon; how to explain the key chemical and physical properties of metals.</p> <p>Extended Task.</p>		<p>Key Vocabulary</p> <p>Carbon</p>	<p>Homework</p> <p>PPQ based on allotropes of carbon</p>
<p>In LP4.4, I will know: 25/03/24 - (WK 2)</p> <p>how to calculate the relative formula mass of a compound; how to calculate the number of moles of an atom or compound.</p>		<p>Key Vocabulary</p> <p>Mole</p>	<p>Homework</p> <p>Retrieval Questions on metals and allotropes of carbon</p>
<p>In LP4.5, I will know: 15/04/24 - (WK 1)</p> <p>how to calculate percentage mass of an atom in a compound; how to balance equations.</p>		<p>Key Vocabulary</p> <p>Balanced Equation</p>	<p>Homework</p> <p>PPQ based on balancing equations</p>
<p>In LP4.6, I will know: 22/04/24 - (WK 2)</p> <p>how to balance equations from masses.</p> <p>Extended Task.</p>		<p>Key Vocabulary</p> <p>Balanced Equation</p>	<p>Homework</p> <p>Retrieval Questions on metals and allotropes of carbon</p>
<p>In LP4.7, I will know: 29/04/24 - (WK 1)</p> <p>how to explain the limiting reactant.</p>		<p>Key Vocabulary</p> <p>Limiting Reactant</p>	<p>Homework</p> <p>PPQ based on balancing equations</p>
<p>In LP4.8, I will know: 06/05/24 - (WK 2)</p> <p>how to calculate concentration of a solution.</p>		<p>Key Vocabulary</p> <p>Concentration</p>	<p>Homework</p> <p>Retrieval Questions on concentration of a solution.</p>
<p>Resources to support learning: Knowledge organiser, topic booklet, Cognito science videos on YouTube, carousel learning, Microsoft TEAMS and GCSE Bitesize</p>			
<p>FFET Award Challenge for this Learning Programme: LP4 Year 10 Science: Create a revision resource on a topic of your choice</p>			

PRT Task 1

PRT Task 2