

Year 7 Subject

Learning Programme 4

<p>The LORIC skill focus for his LP is: INITIATIVE. The Moral Virtues focus for this LP are: INTEGRITY and GRATITUDE.</p> <p>Integrity - Having strong moral principles. Gratitude - Feeling and expressing thanks.</p> <p>What will I be learning about in this Learning Programme? How different substances react with each other and the requirements needed for various chemical reactions to take place. Various methods of extracting and separating different substances from mixtures and compounds.</p> <p>Where have I seen this learning before? Learning programme 1, fundamental building blocks of substances and understanding the composition of elements, compounds and mixtures.</p> <p>What could I use it for? Year 9 Chemistry and GCSE chemistry.</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: 10/03/25 - (WK 2)</p> <p>how to revise for a summative assessment; how to complete a summative assessment; how to recognise compounds from their formula and EXPLAIN how mixtures can be separated.</p>	<p>Key Vocabulary</p> <p>Word equation</p>	<p>Homework</p> <p>Learn keyword spellings</p>
<p>In LP4.2, I will know: 17/03/25 - (WK 1)</p> <p>how to construct a formula equation for a reaction without the use of word equations; how to explain the benefits and disadvantages of some oxidation reactions; how to explain the benefits and disadvantages of some decomposition reactions.</p>	<p>Key Vocabulary</p> <p>Combustion</p>	<p>Homework</p> <p>Learn keyword definitions</p>
<p>In LP4.3, I will know: 24/03/25 - (WK 2)</p> <p>how to predict and explain whether the mass within a reaction vessel will stay the same; how to use balanced symbol equations to EXPLAIN how reactions conserve mass; how to introduce and use formula equations to show what happens when metals react in different acids.</p> <p>Extended Task.</p>	<p>Key Vocabulary</p> <p>Thermal decomposition</p>	<p>Homework</p> <p>Knowledge organiser flipper</p>
<p>In LP4.4, I will know: 31/03/25 - (WK 1)</p> <p>how to predict the reactivity of unfamiliar metals with oxygen using information about their behaviour; how to predict the reactivity of unfamiliar metals with water from information about their behaviour; how to suggest ways of reducing corrosion using paint and oil.</p>	<p>Key Vocabulary</p> <p>Reactivity</p>	<p>Homework</p> <p>10 core questions</p>
<p>In LP4.5, I will know: 21/04/25 - (WK 2)</p> <p>how to explain why metals can be extracted using carbon, using the idea of displacement; how to suggest advantages and disadvantages of using polymers; how to suggest advantages and disadvantages of ceramic properties.</p>	<p>Key Vocabulary</p> <p>Metal extraction</p>	<p>Homework</p> <p>Literacy task</p>
<p>In LP4.6, I will know: 28/04/25 - (WK 1)</p> <p>how to suggest advantages and disadvantages of composite properties; how to explain whether or not filtering can be used in given situations; how to discuss whether evaporation or distillation would be suitable for separating a mixture.</p> <p>Extended Task.</p>	<p>Key Vocabulary</p> <p>Corrosion</p>	<p>Homework</p> <p>10 core questions</p>
<p>In LP4.7, I will know: 05/05/25 - (WK 2)</p> <p>how to follow a method and complete the rock salt practical; how to compare evaporation and distillation; how to analyse chromatograms to identify substances in mixtures.</p>	<p>Key Vocabulary</p> <p>Polymer</p>	<p>Homework</p> <p>Extended exam question</p>
<p>Resources to support learning: Booklets, BBC bitesize, SPARX science.</p>		
<p>FFET Award Challenge for this Learning Programme: Design a new product from a polymer and explain what it would be used for.</p>		

PRT Task 1

PRT Task 2