

Year 13 Chemistry Teacher 2

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. I will show integrity by taking responsibility for my actions. Gratitude - Feeling and expressing thanks. I will show gratitude by saying please and thank you.</p> <p>What will I be learning about in this Learning Programme? Enthalpy, Feasibility of reactions and Equilibrium</p> <p>Where have I seen this learning before? GCSE Rates of reaction and Year 12 Equilibrium</p> <p>What could I use it for? During industrial processes that require reactions to be feasible verses cost. In medical and industrial applications. Degree level study.</p>		<p>Literacy Non-Negotiables:</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 • Vocabulary to be taught using the Frayer model
<p>In LP4.1, I will know: 09/03/26 - (WK 2)</p> <p>How to demonstrate knowledge of lattice enthalpy and Born-Haber cycles and use this to calculate lattice enthalpy.</p>	<p>Frayer Model Words</p> <p>Born Haber cycle</p>	<p>Homework</p> <p>Born Haber Cycles Exam Question</p>
<p>In LP4.2, I will know: 16/03/26 - (WK 1)</p> <p>Define Enthalpy change of Solution and construct enthalpy Diagrams</p>	<p>Frayer Model Words</p> <p>Lattice Enthalpy</p>	<p>Homework</p> <p>Lattice Enthalpy Exam Question</p>
<p>In LP4.3, I will know: 23/03/26 - (WK 2)</p> <p>How to identify and explain factors affecting lattice enthalpy.</p> <p>Extended Task.</p>	<p>Frayer Model Words</p> <p>Enthalpy</p>	<p>Homework</p> <p>Lattice Enthalpy Exam Question</p>
<p>In LP4.4, I will know: 13/04/26 - (WK 1)</p> <p>How to define the term "Entropy" and calculate Entropy changes;</p>	<p>Frayer Model Words</p> <p>Entropy</p>	<p>Homework</p> <p>Entropy Exam Question</p>
<p>In LP4.5, I will know: 20/04/26 - (WK 2)</p> <p>How to understand the term Free Energy and using the Gibbs equation to identify the feasibility of reactions.</p>	<p>Frayer Model Words</p> <p>Free Energy</p>	<p>Homework</p> <p>Gibbs Free Energy Exam Question</p>
<p>In LP4.6, I will know: 27/04/26 - (WK 1)</p> <p>How to review my learning on module 3 enthalpy and equilibrium.</p> <p>Extended Task.</p>	<p>Frayer Model Words</p> <p>Equilibrium</p>	<p>Homework</p> <p>Equilibrium Exam Question</p>
<p>In LP4.7, I will know: 04/05/26 - (WK 2)</p> <p>How to review my learning on module 5 Rates of Reaction and Equilibrium</p>	<p>Frayer Model Words</p> <p>Rate of Reaction</p>	<p>Homework</p> <p>Rates of Reaction Exam Question</p>
<p>Resources to support learning: Knowledge organiser, Microsoft TEAMS, Carousel learning, Machem guy YouTube videos. Knock hardy and a level chemistry.co.uk</p>		
<p>FFET Award Challenge for this Learning Programme: Independently complete a past paper</p>		

