

Year 10 GCSE Chemistry Learning Programme 5

<p>The LORIC skill focus for this LP is: COMMUNICATION.</p> <p>The Moral Virtues focus for this LP are: COURAGE and HUMILITY.</p> <p>Courage - Acting with bravery and overcoming fears.</p> <p>Humility - Having a modest view of oneself.</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?</p> <p>How energy is transferred in a chemical reaction, how different factors affect the rate of a reaction.</p> <p>Where have I seen this learning before?</p> <p>You will have studied chemical reactions at KS3.</p> <p>What could I use it for?</p> <p>Rates and equilibria at KS5.</p>					
<p>In LP5.1, I will know: 13/05/24 - (WK 1)</p> <p>how the temperature changes affect the surroundings for exothermic and endothermic reactions; how to undertake the calorimetry required practical; how to draw reaction profiles.</p>					
	Key Vocabulary	Exothermic	Homework	Retrieval questions based on LP4	
<p>In LP5.2, I will know: 20/05/24 - (WK 2)</p> <p>how to calculate enthalpy changes for exothermic and endothermic reactions; how to construct chemical cells; how to evaluate hydrogen fuel cells.</p>		Key Vocabulary	Reaction	Homework	PPQ based on required practical
<p>In LP5.3, I will know: 03/06/24 - (WK 1)</p> <p>how to calculate the rate of a reaction; how to calculate the rate of a reaction using tangents (H tier only).</p> <p>Extended Task.</p>		Key Vocabulary	Collision	Homework	Retrieval questions based on fuel cells
					
<p>In LP5.4, I will know: 10/06/24 - (WK 2)</p> <p>how rates of a reaction are affected by; surface area, temperature, concentration; how to explain this by linking to collision theory; how to undertake the two concentration required practicals (volume of gas and turbidity).</p>		Key Vocabulary	Catalyst	Homework	PPQ based on rates of reaction
<p>In LP5.5, I will know: 17/06/24 - (WK 1)</p> <p>how rates of a reaction are affected by pressure and catalysts; how to explain this by linking to collision theory.</p>		Key Vocabulary	Equilibrium	Homework	Retrieval questions based on fuel cells
<p>In LP5.6, I will know: 24/06/24 - (WK 2)</p> <p>how we can make changes to equilibrium position by; adding/removing reactants; how we can make changes to equilibrium position by; adding/removing products.</p> <p>Extended Task.</p>		Key Vocabulary	Product	Homework	PPQ based on rates of reaction (part 2)
					
<p>In LP5.7, I will know: 01/07/24 - (WK 1)</p> <p>how we can make changes to equilibrium position by; adding/removing reactants or products, changing the temperature and changing the pressure.</p>		Key Vocabulary	Reactant	Homework	Retrieval questions based on equilibrium positions.
<p>In LP5.8, I will know: 08/07/24 - (WK 2)</p> <p>how to make changes to rates of reaction by using a catalyst; how to draw reaction profiles with a catalysed reaction.</p>		Key Vocabulary	Catalyst	Homework	PPQ based on equilibrium positions
<p>Resources to support learning:</p> <p>Knowledge organiser, Topic Booklet, Oak Academy, Microsoft TEAMS and GCSE Bitesize</p>					
<p>FFET Award Challenge for this Learning Programme:</p> <p>LP5 - Create a revision resource of your choice</p>					