

Year 11 Chemistry Combined Learning Programme 2

<p>The LORIC skill focus for this LP is: ORGANISATION The Moral Virtues focus for this LP are: COMPASSION and HONESTY Compassion - the quality of feeling pity and concern for the sufferings or misfortunes of others. Honesty - the quality of being truthful.</p> <p>What will I be learning about in this Learning Programme? 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? You will have studied chemical reactions at KS3</p> <p>What could I use it for? Rates and equilibria 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 LP2.1, I will know: 21/10/24 - (WK 2)</p> <p>how embryo screening occurs to screen for genetic diseases allowing for informed choice; what genetic modification is and how it can be used in biotechnology and agriculture; the process of therapeutic cloning and adult cell cloning in plants along with their uses.</p>	<p>Key Vocabulary</p> <p>genetic modification</p>	<p>Homework</p> <p>Retrieval Practice</p>
<p>In LP2.2, I will know: 04/11/24 - (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>	<p>Key Vocabulary</p> <p>Exothermic</p>	<p>Homework</p> <p>PPQ</p>
<p>LP2 RLW, I will: 11/11/24 - (WK 2)</p> <p>review my learning, recalling and applying key knowledge, and focus on closing any gaps in my knowledge.</p>		
<p>In LP2.3, I will know: 18/11/24 - (WK 1)</p> <p>how to calculate enthalpy changes for exothermic and endothermic reactions (H tier only); 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>	<p>Key Vocabulary</p> <p>Reaction</p>	<p>Homework</p> <p>Retrieval Practice</p>
<p>In LP2.4, I will know: 25/11/24 - (WK 2)</p> <p>how rates of a reaction are affected by; surface area, temperature, concentration. Be able to explain this by linking to collision theory; how to undertake the two concentration required practical's (volume of gas and turbidity).</p>	<p>Key Vocabulary</p> <p>Collision</p>	<p>Homework</p> <p>PPQ</p>
<p>In LP2.5, I will know: 02/12/24 - (WK 1)</p> <p>how rates of a reaction are affected by pressure and catalysts. Be able to explain this by linking to collision theory.</p>	<p>Key Vocabulary</p> <p>Catalyst</p>	<p>Homework</p> <p>Retrieval Practice</p>
<p>In LP2.6, I will know: 09/12/24 - (WK 2)</p> <p>how we can make changes to equilibrium position by; adding/removing reactants or products, changing the temperature and changing the pressure.</p> <p>Extended Task.</p>	<p>Key Vocabulary</p> <p>Equilibrium</p>	<p>Homework</p>
<p>In LP2.7, I will know: 16/12/24 - (WK 1)</p> <p>what my key strengths and weaknesses are in my science studies so far as a result of my mock exams.</p>	<p>Key Vocabulary</p>	<p>Homework</p> <p>Revise</p>
<p>Resources to support learning: Knowledge organiser, Topic Booklet, Oak Academy, Microsoft TEAMS and GCSE Bitesize</p>		
<p>FFET Award Challenge for this Learning Programme: LP2 Year11 Science: Complete a practice paper independently</p>		

