

Year 12 Applied Science BTEC SMR

Learning Programme 5

<p>The LORIC skill focus for his LP is: COMMUNICATION. The Moral Virtues focus for this LP are: COURAGE and HUMILITY.</p> <p>Courage - Acting with bravery and overcoming fears. Humility - Having a modest view of oneself.</p> <p>What will I be learning about in this Learning Programme? About plants and the different factors that impact their growth and how to test for them.</p> <p>Where have I seen this learning before? You have covered quadrats, ecology and plant structure in KS3 and KS4.</p> <p>What could I use it for? A degree in ecology or when working in conservation.</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 LP5.1, I will know:</p> <p>how to test for starch using iodine; how to dilute a stock solution and use a colorimeter.</p>	<p>11/05/26 - (WK 1)</p> <p>Key Vocabulary</p> <p>dilutions</p>	<p>Homework</p> <p>Write up how to test for starch and how to dilute solutions.</p>
<p>In LP5.2, I will know:</p> <p>how to construct a calibration curve; how to investigate the concentration of starch using the Beer-Lambert law and a calibration curve.</p>	<p>18/05/26 - (WK 2)</p> <p>Key Vocabulary</p> <p>calibration</p>	<p>Homework</p> <p>Write up about using a calibration curve.</p>
<p>LP5 RLW, I will:</p> <p>01/06/26 - (WK 1)</p>		
<p>review my learning, recalling and applying key knowledge, and focus on closing any gaps in my knowledge.</p>	<p>review</p>	<p>Review learning in preparation for assessment.</p>
<p>In LP5.3, I will know:</p> <p>how to analyse the results of this investigation; how to evaluate this investigation.</p> <p>Extended Task.</p>	<p>08/05/26 - (WK 2)</p> <p>Key Vocabulary</p> <p>analysis</p>	<p>Homework</p> <p>Write up analysis and evaluation.</p>
<p>In LP5.4, I will know:</p> <p>how to review learning in this subject so far by completing assessments.</p>	<p>15/06/26 - (WK 1)</p> <p>Key Vocabulary</p> <p>assessment</p>	<p>Homework</p> <p>Revise for assessment.</p>
<p>In LP5.5, I will know:</p> <p>how to use a light microscope to observe plant cells and identify organelles; how to use the appropriate equipment to calculate the size of palisade cells and nuclei.</p>	<p>22/06/26 - (WK 2)</p> <p>Key Vocabulary</p> <p>magnification</p>	<p>Homework</p> <p>Write up about how to use a light microscope.</p>
<p>In LP5.6, I will know:</p> <p>how to analyse the results of this investigation; how to evaluate this investigation.</p> <p>Extended Task.</p>	<p>29/06/26 - (WK 1)</p> <p>Key Vocabulary</p> <p>evaluation</p>	<p>Homework</p> <p>Write up analysis and evaluation.</p>
<p>In LP5.7, I will know:</p> <p>how to dissect a flower safely and write a report about it; how to produce annotated images of plant tissues.</p>	<p>06/7/26 - (WK 2)</p> <p>Key Vocabulary</p> <p>dissection</p>	<p>Homework</p> <p>Write up about the plant dissection.</p>
<p>Resources to support learning:</p> <p>EPC Knowledge organiser, Synergy, writing frames, research on the internet, guidance from teacher, YouTube videos.</p>		
<p>FFET Award Challenge for this Learning Programme:</p> <p>Take a survey of all the plants on the school field and their location. Write a brief report linking their distribution to abiotic and biotic factors.</p>		

