

Year 12 A Level Biology Learning Programme 3

<p>The LORIC skill focus for this LP is: RESILIENCE The Moral Virtues focus for this LP are: RESPECT and JUSTICE</p> <p>Respect - treat others how you would wish to be treated yourself. Justice - our College rules are fair and reasonable.</p> <p>What will I be learning about in this Learning Programme? You are learning about how exchange systems are specialised.</p> <p>Where have I seen this learning before? You have learnt about gas exchange systems in GCSE Biology.</p> <p>What could I use it for? You will use this again if you pursue a career in human physiology, zoology.</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 LP3.1, I will know: 06/01/25 - (WK 2)</p> <p>the need for specialised exchange surfaces; the structures and functions of the components of mammalian gaseous exchange system; the relationship between vital capacity, tidal volume, breathing rate and oxygen uptake.</p>	<p>Key Vocabulary</p> <p>Gaseous exchange</p>	<p>Homework</p> <p>Practice task on vital capacity and lung volumes.</p>
<p>In LP3.2, I will know: 13/01/25 - (WK 1)</p> <p>the mechanisms of ventilation and gas exchange in insects.</p>	<p>Key Vocabulary</p> <p>Ventilation</p>	<p>Homework</p> <p>Exam question on specialised exchange systems.</p>
<p>In LP3.3, I will know: 20/01/25 - (WK 2)</p> <p>the mechanisms of ventilation and gas exchange in bony fish; the need for transport systems in multicellular plants; the process of transpiration and the environmental factors that affect transpiration rate.</p>	<p>Key Vocabulary</p> <p>Transpiration</p>	<p>Homework</p> <p>Practice task on vital capacity and lung volumes.</p>
<p>In LP3.4, I will know: 27/01/25 - (WK 1)</p> <p>how to complete a formative assessment</p> <p>Extended Task.</p>	<p>Key Vocabulary</p>	<p>Homework</p> <p>Exam question on gas exchange in insects.</p>
<p>In LP3.5, I will know: 03/02/25 - (WK 2)</p> <p>practical investigations to estimate transpiration rates; the mechanism of translocation including the transport of assimilates between sources and sinks; the adaptations of plants to the availability of water in their environment.</p>	<p>Key Vocabulary</p> <p>Translocation</p>	<p>Homework</p> <p>Practical write up for transpiration.</p>
<p>In LP3.6, I will know: 10/02/25 - (WK 1)</p> <p>the taxonomic hierarchy of biological classification of species.</p>	<p>Key Vocabulary</p> <p>Classification</p>	<p>Homework</p> <p>Revision activity</p>
<p>LP3 RLW, I will: 24/02/25 - (WK 2)</p> <p>review my learning, recalling and applying key knowledge, and focus on closing any gaps in my knowledge.</p>	<p>Key Vocabulary</p>	<p>Homework</p> <p>Exam question on plant adaptations.</p>
<p>In LP3.7, I will know: 03/03/25 - (WK 1)</p> <p>the features used to classify organisms into the five kingdoms.</p> <p>Extended Task.</p>	<p>Key Vocabulary</p> <p>Five kingdoms</p>	<p>Homework</p> <p>Exam questions on classification.</p>
<p>Resources to support learning: Knowledge organiser, Seneca, Synergy, Studymind</p>		
<p>FFET Award Challenge for this Learning Programme: "I am pro-life. I believe human life begins at conception. I also believe that embryonic stem cell research should be encouraged and supported." - Former U.S. Senator Bill Frist, speech (2005). Write a short essay to discuss this statement.</p>		

