

## Year 12 A Level Biology 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><b>What will I be learning about in this Learning Programme?</b> Biodiversity of organisms and how they are classified.</p> <p><b>Where have I seen this learning before?</b> You have learnt about classification evolution in KS3 and GCSE.</p> <p><b>What could I use it for?</b> You will use this again if you study a Bachelor of Science degree in Biological science or zoology.</p>		<p><b>Literacy Non-Negotiables:</b></p> <ul style="list-style-type: none"> <li>• Capital letters must be used at the start of sentences and for the first letter of proper nouns</li> <li>• Full stops must be used at the end of a sentence</li> <li>• Question marks must be used at the end of a question</li> <li>• Apostrophes should only be used for possession or omission</li> <li>• Days of the week and months must be spelled correctly</li> <li>• Key words must be spelled correctly</li> <li>• Vocabulary to be taught using the Frayer model</li> </ul>
<p><b>In LP4.1, I will know:</b> 09/03/26 - (WK 2)</p> <p>how to complete a summative assessment; the adaptations of plants to the availability of water in their environment;</p>	<p><b>Frayer Model Words</b></p> <p>Adaptation</p>	<p><b>Homework</b></p> <p>Research task on how plants are adapted to their environment</p>
<p><b>In LP4.2, I will know:</b> 16/03/26 - (WK 1)</p> <p>the taxonomic hierarchy of biological classification of species; the features used to classify organisms into the five kingdoms.</p>	<p><b>Frayer Model Words</b></p> <p>Taxonomic</p>	<p><b>Homework</b></p> <p>Exam questions on classification</p>
<p><b>In LP4.3, I will know:</b> 23/03/26 - (WK 2)</p> <p>the relationship between classification and phylogeny.</p> <p>Extended Task.</p>	<p><b>Frayer Model Words</b></p> <p>Phylogeny</p>	<p><b>Homework</b></p> <p>Revision task to prepare for Formative assessment</p>
<p><b>In LP4.4, I will know:</b> 13/04/26 - (WK 1)</p> <p>my strengths and areas to develop so far; the evidence for the theory of evolution by natural selection, including fossils, DNA and molecular evidence; what interspecific and intraspecific variation is.</p>	<p><b>Frayer Model Words</b></p> <p>Evolution</p>	<p><b>Homework</b></p> <p>Discuss the advantages and disadvantages of phylogenetic classification</p>
<p><b>In LP4.5, I will know:</b> 20/04/26 - (WK 2)</p> <p>the differences between continuous and discontinuous variation using examples from plants, animals and microorganisms</p>	<p><b>Frayer Model Words</b></p> <p>Variation</p>	<p><b>Homework</b></p> <p>Exam questions on variation</p>
<p><b>In LP4.6, I will know:</b> 27/04/26 - (WK 1)</p> <p>how to complete t test to compare means of data values of 2 populations; the different types of adaptations of organisms to their environment.</p> <p>Extended Task.</p>	<p><b>Frayer Model Words</b></p> <p>t-test</p>	<p><b>Homework</b></p> <p>Practice questions to apply to test to compare data</p>
<p><b>In LP4.7, I will know:</b> 04/05/26 - (WK 2)</p> <p>the mechanism by which natural selection can affect the characteristics of a population over time; my strengths and areas to develop so far.</p>	<p><b>Frayer Model Words</b></p> <p>Natural Selection</p>	<p><b>Homework</b></p> <p>Exam questions on natural selection</p>
<p><b>Resources to support learning:</b> Knowledge organiser, booklet, Studymind, A Level Biology textbook</p>		
<p><b>FFET Award Challenge for this Learning Programme:</b> LP4 Year 12 Biology: Charles Darwin was the first to suggest the Theory of Evolution by Natural Selection but he was not alone in creating this theory. Research Darwin and his friend Alfred Wallace and write a persuasive speech to suggest if you think that Darwin should have given Wallace credit for his theory.</p>		

