

## Year 13 Applied Science 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> About different regulatory systems in humans and how they interact and the issues that arise when these systems are not working properly.</p> <p><b>Where have I seen this learning before?</b> You will have learnt about the respiratory and nervous system at KS3 and GCSE.</p> <p><b>What could I use it for?</b> You will use the knowledge from this unit if you pursue a medical career in nursing or being a doctor.</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 review assignment A and B.</p>	<p><b>Frayer Model Words</b></p> <p>assessment</p>	<p><b>Homework</b></p> <p>Work on unit 9 coursework.</p>
<p><b>In LP4.2, I will know:</b> 16/03/26 - (WK 1)</p> <p>the structure and function of the nervous system in relation to the cardiovascular and respiratory system; how nerve impulses are initiated and controlled by the cardiovascular and respiratory systems.</p>	<p><b>Frayer Model Words</b></p> <p>cardiovascular</p>	<p><b>Homework</b></p> <p>Work on unit 9 coursework.</p>
<p><b>In LP4.3, I will know:</b> 23/03/26 - (WK 2)</p> <p>how to assess the role of the nervous system in coordinating the cardiovascular and respiratory systems; the homeostatic mechanisms involved in maintaining normal function.</p> <p>Extended Task.</p>	<p><b>Frayer Model Words</b></p> <p>coordination</p>	<p><b>Homework</b></p> <p>Work on unit 9 coursework.</p>
<p><b>In LP4.4, I will know:</b> 13/04/26 - (WK 1)</p> <p>the role of hormones in homeostatic mechanisms; the impact of homeostatic dysfunction on the human body.</p>	<p><b>Frayer Model Words</b></p> <p>homeostasis</p>	<p><b>Homework</b></p> <p>Work on unit 9 coursework.</p>
<p><b>In LP4.5, I will know:</b> 20/04/26 - (WK 2)</p> <p>the structure and function of the reproductive anatomy; the hormones involved in gamete production and conception.</p>	<p><b>Frayer Model Words</b></p> <p>gametogenesis</p>	<p><b>Homework</b></p> <p>Work on unit 9 coursework.</p>
<p><b>In LP4.6, I will know:</b> 27/04/26 - (WK 1)</p> <p>the regulation of male and female reproductive systems; the mechanisms of reproductive health.</p> <p>Extended Task.</p>	<p><b>Frayer Model Words</b></p> <p>reproduction</p>	<p><b>Homework</b></p> <p>Work on unit 9 coursework.</p>
<p><b>In LP4.7, I will know:</b> 04/05/26 - (WK 2)</p> <p>how conception may be prevented or promoted; how to review learning on this topic.</p>	<p><b>Frayer Model Words</b></p> <p>fertilisation</p>	<p><b>Homework</b></p> <p>Work on unit 9 coursework.</p>
<p><b>Resources to support learning:</b> <a href="https://www.pearsonschoolsandcolleges.co.uk/asset-library/pdf/Secondary/BTEC-Nationals/Applied-Science-2016/BTEC-National-in-Applied-Science-Unit-09-Sample-Redacted-web-ready.pdf">https://www.pearsonschoolsandcolleges.co.uk/asset-library/pdf/Secondary/BTEC-Nationals/Applied-Science-2016/BTEC-National-in-Applied-Science-Unit-09-Sample-Redacted-web-ready.pdf</a> <a href="#">Synergy, knowledge organiser.</a></p>		
<p><b>FFET Award Challenge for this Learning Programme:</b> Carry out some extra research around the topic we are covering to extend your knowledge.</p>		

PRT Task 1

PRT Task 2