

Year 10 Biology

Learning Programme 2

<p>The LORIC skill focus for his LP is: ORGANISATION The Moral Virtues focus for this LP are: COMPASSION and HONESTY</p> <p>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? You are learning about the structure and function of various organ systems, including the digestive system and the circulatory system.</p> <p>Where have I seen this learning before? You have learnt about these systems at KS3 and primary school.</p> <p>What could I use it for? You will use this knowledge in A-level Biology, BTEC Applied Science and if you pursue a BSc in Sports Science.</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>the importance of mitosis in maintaining chromosome number; the different types of stem cell, how they can be used to treat medical conditions and the use of therapeutic cloning.</p>	<p>Key Vocabulary</p> <p>Stem cells</p>	<p>Homework</p> <p>Short questions on stem cells.</p>
<p>In LP2.2, I will know: 04/11/24 - (WK 1)</p> <p>the organisation and role of cells, tissues, organs within the digestive system; the different food groups and their importance for a healthy diet.</p>	<p>Key Vocabulary</p> <p>Organisation</p>	<p>Homework</p> <p>Exam question on the digestive system.</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>Key Vocabulary</p> <p>Revision</p>	<p>Homework</p> <p>Review past learning.</p>
<p>In LP2.3, I will know: 18/11/24 - (WK 1)</p> <p>how to investigate the main food groups using standard food tests; the roles played by different digestive enzymes and the factors that may affect them.</p> <p>Extended Task.</p>	<p>Key Vocabulary</p> <p>Enzymes</p>	<p>Homework</p> <p>Short questions on food tests.</p>
<p>In LP2.4, I will know: 25/11/24 - (WK 2)</p> <p>how to investigate the effect of pH on the rate of amylase action; how hydrochloric acid and bile make digestion more efficient structure of the villi.</p>	<p>Key Vocabulary</p> <p>Efficiency</p>	<p>Homework</p> <p>Exam question on the respiratory system.</p>
<p>In LP2.5, I will know: 02/12/24 - (WK 1)</p> <p>the structure and function of blood vessels in carrying blood and the importance of valves; the structure and function of the heart and suggest ways to treat some heart problems.</p>	<p>Key Vocabulary</p> <p>Myogenic</p>	<p>Homework</p> <p>Short questions on the circulatory system.</p>
<p>In LP2.6, I will know: 09/12/24 - (WK 2)</p> <p>the structure of the human gas exchange system and how gases are exchanged across the alveoli; the parts of the plant organ system and describe how substances are transported around the plant.</p> <p>Extended Task.</p>	<p>Key Vocabulary</p> <p>Surface area</p>	<p>Homework</p> <p>Exam questions on exchange surfaces.</p>
<p>In LP2.7, I will know: 16/12/24 - (WK 1)</p> <p>the role of transpiration, the stomata and guard cells and factors that affect the rate of transpiration and translocation; how to carry out a practical to observe transpiration.</p>	<p>Key Vocabulary</p> <p>Transpiration</p>	<p>Homework</p> <p>Short questions on plant organisation.</p>
<p>Resources to support learning: Knowledge organiser, BBC GCSE bitesize, science booklet.</p>		
<p>FFET Award Challenge for this Learning Programme: Create a revision resource on a topic of your choice.</p>		

PRT Task 1

PRT Task 2