

Year 10 Combined Science Biology

Learning Programme 4

<p>The LORIC skill focus for this LP is: INITIATIVE.</p> <p>The Moral Virtues focus for this LP are: INTEGRITY and GRATITUDE.</p> <p>Integrity - Having strong moral principles.</p> <p>Gratitude - Feeling and expressing thanks.</p> <p>What will I be learning about in this Learning Programme? How the immune system responds to pathogen but how non-communicable disease causes lots of deaths in developed countries.</p> <p>Where have I seen this learning before? You will have learnt about disease in KS2 and KS3, you will have heard about disease on the news.</p> <p>What could I use it for? You will learn about the immune system in A-level Biology and you could consider a degree in Immunology.</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 LP4.1, I will know:</p> <p>how the spread of disease can be reduced or prevented; how white blood cells protect you from disease.</p>	<p>04/03/24 - (WK 1)</p> <p>Key Vocabulary</p> <p>immune system</p>	<p>Homework</p> <p>Revision for assessment.</p>
<p>In LP4.2, I will know:</p> <p>how to complete an assessment of my learning so far; the use of vaccinations and the protection against disease; to review my learning for this year and fill in gaps in my learning.</p>	<p>11/03/24 - (WK 2)</p> <p>Key Vocabulary</p> <p>vaccination</p>	<p>Homework</p> <p>Past paper questions.</p>
<p>In LP4.3, I will know:</p> <p>why testing new drugs is so important; what a causal mechanism is and how this links to heart and liver disease.</p> <p>Extended Task.</p>	<p>18/03/24 - (WK 1)</p> <p>Key Vocabulary</p> <p>causal mechanism</p>	<p>Homework</p> <p>Retrieval questions.</p>
<p>In LP4.4, I will know:</p> <p>the effect of smoking and alcohol on adults and unborn babies; obesity as a risk factor for type 2 diabetes and how it can lead to CVD; the different types of tumour and how cancer develops.</p>	<p>25/03/24 - (WK 2)</p> <p>Key Vocabulary</p> <p>tumour</p>	<p>Homework</p> <p>Past paper questions.</p>
<p>In LP4.5, I will know:</p> <p>the different types of stem cell and describe how they can be used to treat medical conditions; review learning of the disease topic.</p>	<p>15/04/24 - (WK 1)</p> <p>Key Vocabulary</p> <p>placebo</p>	<p>Homework</p> <p>Retrieval questions.</p>
<p>In LP4.6, I will know:</p> <p>the equation which summarises photosynthesis and what the plant uses glucose for; the factors that limit the rate of photosynthesis in plants; how to investigate the effect of light intensity on the rate of photosynthesis using an aquatic organism such as pondweed.</p> <p>Extended Task.</p>	<p>22/04/24 - (WK 2)</p> <p>Key Vocabulary</p> <p>photosynthesis</p>	<p>Homework</p> <p>Past paper questions.</p>
<p>In LP4.7, I will know:</p> <p>how to analyse and evaluate the pondweed required practical; the importance of aerobic respiration and the importance of cellular respiration; the amount of energy transferred in anaerobic respiration and how this occurs in plants, bacteria and fungi.</p>	<p>29/04/24 - (WK 1)</p> <p>Key Vocabulary</p> <p>aerobic</p>	<p>Homework</p> <p>Retrieval questions.</p>
<p>In LP4.8, I will know:</p> <p>changes that occur in the body due to exercise and why this happens; conduct the pulse rate practical to observe these changes and understand metabolism and oxygen debt.</p>	<p>06/05/24 - (WK 2)</p> <p>Key Vocabulary</p> <p>anaerobic</p>	<p>Homework</p> <p>Past paper questions.</p>
<p>Resources to support learning:</p> <p>https://www.bbc.co.uk/bitesize/guides/zg8nrwx/revision/2 https://www.bbc.co.uk/bitesize/guides/zxr7ng8/revision/1 TEAMS, knowledge organiser, booklet, exercise book.</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