

Year 10 Combined Science Bio/Chem

Learning Programme 4

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| <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. 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: 10/03/25 - (WK 2)</p> <p>how to complete an assessment to review my learning so far; how to complete review learning activities to fill gaps in my knowledge.</p> | <p>Key Vocabulary</p> <p>assessment</p> | <p>Homework</p> <p>Sparx Science task.</p> |
| <p>In LP4.2, I will know: 17/03/25 - (WK 1)</p> <p>the importance of surface area to volume ratio and how to calculate it; the adaptations of the gas exchange surfaces; the organs and tissues in the human gas exchange system, their roles and how breathing occurs.</p> | <p>Key Vocabulary</p> <p>surface area: volume ratio</p> | <p>Homework</p> <p>Sparx Science task.</p> |
| <p>In LP4.3, I will know: 24/03/25 - (WK 2)</p> <p>the different types of pathogens and the diseases they cause, as well as the symptoms and treatments for these; what causes plant diseases and how the spread of these can be reduced.</p> <p>Extended Task.</p> | <p>Key Vocabulary</p> <p>pathogen</p> | <p>Homework</p> <p>Sparx Science task.</p> |
| <p>In LP4.4, I will know: 31/03/25 - (WK 1)</p> <p>how the spread of disease can be reduced or prevented with emphasis on malaria; how the body protects you from disease including the role of white blood cells.</p> | <p>Key Vocabulary</p> <p>immunity</p> | <p>Homework</p> <p>Sparx Science task.</p> |
| <p>In LP4.5, I will know: 21/04/25 - (WK 2)</p> <p>the use of vaccinations and the protection against disease; why testing new drugs is so important and how they are tested including the role of antibiotics.</p> | <p>Key Vocabulary</p> <p>vaccination</p> | <p>Homework</p> <p>Sparx Science task.</p> |
| <p>In LP4.6, I will know: 28/04/25 - (WK 1)</p> <p>the different types of stem cell and describe how they can be used to treat medical conditions; how lifestyle can contribute to the formation of non-communicable diseases including cancer and the role of carcinogens.</p> <p>Extended Task.</p> | <p>Key Vocabulary</p> <p>non-communicable</p> | <p>Homework</p> <p>Sparx Science task.</p> |
| <p>In LP4.7, I will know: 05/05/25 - (WK 2)</p> <p>the link between obesity, diabetes and CVD and poor diet; the impact of smoking and alcohol on body function as well as the social and economic impact of these.</p> | <p>Key Vocabulary</p> <p>impact</p> | <p>Homework</p> <p>Sparx Science task.</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 Synergy, knowledge organiser.</p> | | |
| <p>FFET Award Challenge for this Learning Programme:</p> <p>Create a revision resource on a topic of your choice.</p> | | |

PRT Task 1

PRT Task 2