The Ellesmere Port C of E College

Part of the Frank Field Education Trust

Year 10 GCSE Biology
Learning Programme 4

The LORIC skill focus for his LP is: INITIATIVE.
The Moral Virtues focus for this LP are: INTEGRITY and GRATITUDE.

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.

What will I be learning about in this Learning Programme?
You are learning about communicable disease and bioenergetics.

Where have I seen this learning before?
You have learnt about photosynthesis and plant structure at KS3 and plants at KS2.

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 Biology.

Literacy Non-Negotiables:
- 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
- Vocabulary to be taught using the Frayer model

In LP4.1, I will know: 09/03/26 - (WK 2)	Frayer Model Words	Homework
how to complete an assessment; how to review my assessment.	Review	Complete Sparx Science homework

In LP4.2, I will know: 16/03/26 - (WK 1)	Frayer Model Words	Homework
How the spread of disease can be reduced with basic hygiene principles; How aseptic technique is applied to growing bacteria in a lab; RP: Investigating the effects of different disinfectants of bacterial growth.	Disinfectant	Complete Sparx Science homework

In LP4.3, I will know: 23/03/26 - (WK 2)	Frayer Model Words	Homework
To understand what cancer is, risk factors, how it causes illness and how it can be treated; Describe the process of photosynthesis; Understand how leaves are adapted for photosynthesis. Extended Task.	Cancer	Complete Sparx Science homework

In LP4.4, I will know: 13/04/26 - (WK 1)	Frayer Model Words	Homework
how to complete a formative assessment and PRT; how to EXPLAIN that chloroplasts absorb energy to drive chemical reactions; how to DESCRIBE and EXPLAIN the effects of limiting factors on photosynthesis.	Photosynthesis	Complete Sparx Science homework

PRT Task 1

In LP4.5, I will know: 20/04/26 - (WK 2)	Frayer Model Words	Homework
how to EVALUATE the benefits of manipulating the environment to increase food production; how to use distance to change light intensity and measure rate of photosynthesis;	Light intensity	Complete Sparx Science homework

In LP4.6, I will know: 27/04/26 - (WK 1)	Frayer Model Words	Homework
how to complete a required practical; how to EXPLAIN how substances pass in and out of cells. Extended Task.	Diffusion	Complete Sparx Science homework

In LP4.7, I will know: 04/05/26 - (WK 2)	Frayer Model Words	Homework
how to EXPLAIN the relationship between transpiration and leaf structure; how to EXPLAIN how different factors affect transpiration; how to complete a variegated leaf practical and movement of sugar through the plant.	Transpiration	Complete Sparx Science homework

PRT Task 2

Resources to support learning:
Knowledge organiser, Booklet on Synergy, GCSE Bitesize, Seneca learning, Studymind

FFET Award Challenge for this Learning Programme:
Carry out an investigation to find the optimum conditions for seeds to germinate.