The Ellesmere Port C of E College

Part of the Frank Field Education Trust

Year 10 GCSE Biology
Learning Programme 2

The LORIC skill focus for his LP is: ORGANISATION

The Moral Virtues focus for this LP are: COMPASSION and HONESTY

Compassion - the quality of feeling pity and concern for the sufferings or misfortunes of others.
Honesty - the quality of being truthful.

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.

Where have I seen this learning before?
You have learnt about these systems at a basic level in KS3 and primary school.

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.

Literacy:
- 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

In LP2.1, I will know: 19/10/26 - (WK 2)	Key Vocabulary	Homework
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.	Stem cells	Complete task on Sparx Science.
In LP2.2, I will know: 02/11/26 - (WK 1)	**Key Vocabulary**	**Homework**
the organisation and role of cells, tissues, organs within the digestive system; the different food groups and their importance for a heathy diet; how to investigate the main food groups using standard food tests.	Organisation	Complete task on Sparx Science.
LP2 RLW, I will: 09/11/26 - (WK 2)		
review my learning, recalling and applying key knowledge, and focus on closing any gaps in my knowledge.	Revision	Complete task on Sparx Science.
In LP2.3, I will know: 16/11/26 - (WK 1)	**Key Vocabulary**	**Homework**
he roles played by different digestive enzymes and the factors that may affect them; how to investigate the effect of pH on the rate of amylase action. Extended Task.	Enzymes	Complete task on Sparx Science.
In LP2.4, I will know: 23/11/26 - (WK 2)	**Key Vocabulary**	**Homework**
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; review and improve my learning through formative assessment and PRT.	Efficiency	Complete task on Sparx Science.
In LP2.5, I will know: 30/11/26 - (WK 1)	**Key Vocabulary**	**Homework**
the structure and function of blood vessels in carrying blood and the importance of valves; how to complete an assessment in science to review my progress.	Myogenic	Complete task on Sparx Science.
In LP2.6, I will know: 07/12/26 - (WK 2)	**Key Vocabulary**	**Homework**
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; the role of transpiration, the stomata and guard cells and factors that affect the rate of transpiration and translocation; Extended Task.	Surface area	Complete task on Sparx Science.
In LP2.7, I will know: 14/12/26 - (WK 1)	**Key Vocabulary**	**Homework**
how to carry out a practical to observe transpiration; review my attainment in assessments and close gaps in my learning.	Transpiration	Complete task on Sparx Science.

PRT Task 1

PRT Task 2

Resources to support learning:
EPC Knowledge Organiser, Synergy.

FFET Award Challenge for this Learning Programme:
Create a model of the digestive or the circulatory system.