The Ellesmere Port C of E College

Part of the Frank Field Education Trust

Year 13 A Level 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 ecosystems, populations and sustainability.

Where have I seen this learning before?
You have studied about ecosystems at KS3 and GCSE.

What could I use it for?
You will use this again if you study for a Bachelor of Science or Ecology degree.

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 a summative assessment.	Assessment	Review questions.
In LP4.2, I will know: 16/03/26 - (WK 1)	**Frayer Model Words**	**Homework**
about ecosystems and the influence of biotic and abiotic factors; biomass transfers through ecosystems.	Ecosystem	Exam questions on Ecosystem.
In LP4.3, I will know: 23/03/26 - (WK 2)	**Frayer Model Words**	**Homework**
how to calculate efficiency at different trophic levels; the role of decomposers in ecosystems. Extended Task.	Biomass	Practice questions on efficiency of ecosystems.
In LP4.4, I will know: 13/04/26 - (WK 1)	**Frayer Model Words**	**Homework**
my strengths and weaknesses so far; the recycling of carbon and nitrogen within ecosystems.	Decomposer	Exam questions on the carbon and nitrogen cycle.
In LP4.5, I will know: 20/04/26 - (WK 2)	**Frayer Model Words**	**Homework**
the process of primary succession in the development of an ecosystem; how to measure the abundance and distributions of organisms.	Succession	Exam questions on succession in an ecosystem.
In LP4.6, I will know: 27/04/26 - (WK 1)	**Frayer Model Words**	**Homework**
the use of sampling and recording methods to determine the distribution and abundance of organisms in a variety of ecosystems. Extended Task.	Abundance	Complete PAG write up.
In LP4.7, I will know: 04/05/26 - (WK 2)	**Frayer Model Words**	**Homework**
the factors that determine size of a population; the impact of limiting factors on carrying capacity and final population size.	Population	Exam questions on limiting factors on a population.

PRT Task 1

PRT Task 2

Resources to support learning:
Knowledge organisers, Booklets, Studymind, Resources added to Synergy.

FFET Award Challenge for this Learning Programme:
Research an ecosystem and identify a species of interest whose population is influenced by abiotic and or biotic factors. Present your findings as a concise summary (300-400 words).