

Year 11 Biology

Learning Programme 3

<p>The LORIC skill focus for his LP is: RESILIENCE The Moral Virtues focus for this LP are: RESPECT and JUSTICE</p> <p>Respect - treat others how you would wish to be treated yourself. Justice - our College rules are fair and reasonable.</p> <p>What will I be learning about in this Learning Programme? Inheritance and disease, evolution by natural selection, sampling techniques, ecology, adaptation, material cycles and human impact on the earth and biodiversity.</p> <p>Where have I seen this learning before? Inheritance, genetics and evolution in Year 8 KS3.</p> <p>What could I use it for? A level biology, future biology and ecology based degree subjects.</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
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In LP3.1, I will know:	06/01/25 - (WK 2)	Key Vocabulary	Homework
DESCRIBE the search for genes that are linked to disease; Construct and use probability when predicting the outcomes of genetic crosses; UNDERSTAND inheritance of recessive (CF) and dominant (Polydactyly) disorders. EXPLAIN economic, social and ethical issues concerned with embryo screening.		Embryo screening	Retrieval on inheritance and disease

In LP3.2, I will know:	13/01/25 - (WK 1)	Key Vocabulary	Homework
DESCRIBE how a new species is produced under the influences of natural selection and identify the contributions to evolution from La Marck and Wallace; EXPRESS how fossils are used as evidence for evolution of species from simpler life forms. Evaluate circumstances that may lead to another mass extinction.		Evolution	Retrieval on natural selection

In LP3.3, I will know:	20/01/25 - (WK 2)	Key Vocabulary	Homework
USE the term speciation when describing evolution, and understand the mechanism by which antibiotic resistance develops understand the effects of the development of antibiotic resistance on the treatment of disease; how to define a stable community and how organisms are adapted to the conditions in which they live; I will be able to describe the relationship between communities and ecosystems and describe some of the factors that affect communities as biotic and abiotic.		Community	Exam question on evolution

In LP3.4, I will know:	27/01/25 - (WK 1)	Key Vocabulary	Homework
COMPLETE a formative assessment and pupil response task; how quadrats, transects and random sampling are used to create a representative sample; how to measure the distribution of living things in their natural environment and how to calculate the mean, median and mode to help you understand your data. Extended Task.		Random sampling	Retrieval on sampling

In LP3.5, I will know:	03/02/25 - (WK 2)	Key Vocabulary	Homework
why animals compete and describe the factors that organisms compete for in a habitat and be able to describe what plants compete for and how they compete; how to explain adaptations that made plants and animals successful competitors and describe what organisms need in order to survive; the importance of photosynthesis in feeding relationships and be able to describe the main feeding relationships within a community.		Adaptation	Revision

In LP3.6, I will know:	10/02/25 - (WK 1)	Key Vocabulary	Homework
the factors that affect the rate of decay and how to make compost. I will be able to investigate how temperature affects the rate of decay; how to define biodiversity and why it is important; I will be able to explain some of the effects of the growth in human population on the Earth and its resources and describe how human		Biodiversity	Retrieval on sampling

LP3 RLW, I will:	24/02/25 - (WK 2)		Homework
review my learning, recalling and applying key knowledge, and focus on closing any gaps in my knowledge.			Review learning activity

In LP3.7, I will know:	03/03/25 - (WK 1)	Key Vocabulary	Homework
COMPLETE a formative assessment and pupil response task; the definitions of deforestation, global warming and peat bog destruction. I will know the impact of waste, deforestation and global warming on biodiversity; I will be able to explain some of the ways people are trying to reduce the impact of human activities on ecosystems and maintaining biodiversity. Extended Task.		Biomass	Exam question on material cycles

Resources to support learning:
Knowledge Organiser, GCSE bitesize, Synergy, Seneca Learning, Studymind

FFET Award Challenge for this Learning Programme:
LP3 Year 11 Science: Create a Science revision timetable

