

## Year 11 Biology

### Learning Programme 3

Reading texts that pupils will study during the learning programme

Loric for LP3 is Resilience

The values we are learning about are respect and justice

Week 1: Adaptations of plants, Week 3: Carbon cycle, Week 5: Acid rain

Respect - a feeling of deep admiration for someone or something elicited by their abilities, qualities or achievements

Justice - fair behaviour or treatment

What will I be learning about in this Learning Programme?

Students will learn about the environment that they live in and how organisms interact with each other.

Where have I seen this learning before?

Students have previously learnt about ecology in Year 8.

What could I use it for?

Students will benefit greatly from this LP if they study Biology beyond GCSE. It will also be of great use on careers such as Environmental officer.

In LP3.1, I will know : 06/01/2025 - (WK 2)

Behaviour to support the values: STEPS/SLANT

Homework

how animals are adapted to the environment that they live in;  
what makes an animal a successful competitor;  
the resources that plants compete for and how plants compete.

I will show respect by actively listening to others

Homework tasks are located in the Knowledge Organisers

In LP3.2, I will know : 13/01/2025 - (WK 1)

Behaviour to support the values: STEPS/SLANT

Homework

how plants are success competitors based on their adaptations;  
how organisms are adapted to survive in many different conditions;  
the main feeding relationships within a community.

I will show justice by speaking up when something is not right

Homework tasks are located in the Knowledge Organisers

In LP3.3, I will know : 20/01/2025 - (WK 2)

Behaviour to support the values: STEPS/SLANT

Homework

the decay cycle and the water cycle;  
the carbon cycle.

I will show respect by being punctual and not wasting the time of others

Homework tasks are located in the Knowledge Organisers

Extended Task

In LP3.4, I will know : 27/01/2025 - (WK 1)

Behaviour to support the values: STEPS/SLANT

Homework

the different conditions that affect the rate of decay;  
the effect of temperature on the rate of decay  
the importance of biodiversity and the effects of humans on it.

I will show justice by being inclusive and accepting everyone regardless of our differences

Homework tasks are located in the Knowledge Organisers



In LP3.5, I will know : 03/02/2025 - (WK 2)

Behaviour to support the values: STEPS/SLANT

Homework

how human activities pollute the land and water;  
the formation of acid rain and its impact on living organisms.

I will show respect by taking care of the school property

Homework tasks are located in the Knowledge Organisers

In LP3.6, I will know : 10/02/2025 - (WK 1)

Behaviour to support the values: STEPS/SLANT

Homework

the effect of deforestation on biodiversity;  
the impact of global warming on life on Earth;  
the effect of environmental changes on the distribution of organisms (H).

I will show justice by supporting others of seeking help when required

Homework tasks are located in the Knowledge Organisers

Extended Task

LP3 RLW, I will: 24/02/2025 - (WK 2)

Behaviour to support the values: STEPS/SLANT

Homework

review my learning, recalling and applying key knowledge, focus on closing any gaps in my knowledge and prepare effectively for the upcoming assessments.

I will show respect by actively listening to others

Homework tasks are located in the Knowledge Organisers

In LP3.7, I will know : 03/03/2025 - (WK 1)

Behaviour to support the values: STEPS/SLANT

Homework

methods to compare and contrast some of the ways of reducing the human impact on biodiversity;  
how to construct accurate pyramids of biomass from appropriate data;  
how to analyse biomass transfers at each stage of a food chain.

I will show respect by recognising and celebrating the achievements of myself and others

Homework tasks are located in the Knowledge Organisers



Resources to support learning:

Kerboodle, CGP Revision Guide, Knowledge organizer

**FFET Award Challenge for this Learning Programme:**

Year 11 Challenge: Organic Chemistry

Challenge Title: "The Molecule of the Future!"

Design a new organic molecule that solves a global problem, such as reducing pollution, curing a disease, or creating sustainable materials.

Task:

Design and name your molecule, explaining how its structure allows it to perform its function.

What to Create:

A diagram showing the molecular structure, annotated with explanations of functional groups and bonding.

A scientific pitch (200–300 words) explaining how the molecule could be produced and its real-world application.

Judging Criteria:

Originality, scientific accuracy, and the clarity of your diagram and explanation.