

Year 7 Science

Learning Programme 4

Reading texts that pupils will study during the learning programme

Logic for LP4 is Initiative

The value we are learning about is **Justice and Integrity**:
Justice- Fair behaviour or treatment
Integrity- Being honest and having strong moral principles

What will I be learning about in this Learning Programme?

Students will learn about the structure of ecosystems and their importance. Students will study predator-prey relationships and the pollination of plants. Students will also learn about the gas exchange system in humans.

Where have I seen this learning before?

Students have studied ecosystems at KS2, looking at food chains.

What could I use it for?

Those interested in ecology, sustainability and stewardship of the Earth.

Week 1: Food Chains, Week 3: Interdependence, Week 5: Predator and prey populations

In LP4.1, I will know:	11/03/24 - (WK 1)	PR Focus	Key Vocabulary	Homework
what food chains are, how to create food chains and show energy transfer; literacy task 1.			food web, food chain, predator, prey	Activate 1: 8.2 Part 1 Checkpoint assessment – practice
In LP4.2, I will know:	18/03/24 - (WK 2)	PR Focus	Key Vocabulary	Homework
how to interpret a food web the factors that affect food webs how to compare food chains with food webs			food web, food chain, predator, prey	Activate 1: 8.2.8 Part 1 Checkpoint assessment – test
In LP4.3, I will know:	08/04/24 - (WK 1)	PR Focus	Key Vocabulary	Homework
the factors that affect the population of species how toxic materials can accumulate in a food web and the effect on different populations literacy task 2. Extended Task			population, species, toxic	Activate 1: 8.1 Glossary quiz
In LP4.4, I will know:	15/04/24 - (WK 2)	PR Focus	Key Vocabulary	Homework
what is meant by ecosystem, community, habitat, environment and niche how different organisms co-exist within an ecosystem; the importance in preserving ecosystems.			ecosystem, niche, habitat, community	Activate 1: 8.1.1–8.1.2 Progress quiz – practice
In LP4.5, I will know:	22/04/24 - (WK 1)	PR Focus	Key Vocabulary	Homework
the resources that plants and animals compete for the interaction between predator and prey populations literacy task 3			interdependence, competition, predator, prey	Activate 1: 10.2.1–10.2.2 Progress quiz – practice
In LP4.6, I will know:	29/04/24 - (WK 2)	PR Focus	Key Vocabulary	Homework
where a plant's reproductive system is found; methods of pollination the structures of a flower and link their structure to their function Extended Task			stamen, anther, carpel, ovary, petals	Activate 1: 10.2.1–10.2.2 Progress quiz – test
In LP4.7, I will know:	06/05/24 - (WK 1)	PR Focus	Key Vocabulary	Homework
what seeds and fruits are what is meant by fertilisation the process of fertilisation and germination			competition, fertilisation, germination	Activate 1: 10.2.3–10.2.5 Progress quiz – practice
In LP4.8, I will know:	13/05/24 - (WK 2)	PR Focus	Key Vocabulary	Homework
how seeds can be dispersed the process of inhaling and exhaling how exercise, smoking and asthma affect the gas exchange system			contract, diaphragm, animal, wind	Activate 1: 9 Part 1 Checkpoint Assessment - practice

PRT Task 1

PRT Task 2

Resources to support learning:

Kerboodle, SENACA BBC Bitesize

FFET Award Challenge for this Learning Programme:

Attend an extra-curricular club, represent the academy at an event, attend an enrichment day, receive a subject praise postcard, attend a day trip, attend a head of year breakfast or afternoon tea, achieve 100 positive points on class charts, receive a letter of commendation from SLT, be invited to a wonderful Wednesday, receive a principals letter or be invited to a principals lunch, attend a residential trip, achieve the Duke of Edinburgh bronze award.