

Year 9 Science

Learning Programme 5

Reading texts that pupils will study during the learning programme

Loric for LP5 is communication

The value we are learning about is **compassion**

Compassion - Sympathy and concern for the suffering or misfortunes of other

What will I be learning about in this Learning Programme?

Students will learn about the causes of variation in a species. Students will study how adaptations increase the chances of an animal surviving. Students will also learn about the structure of DNA and how genetic engineering can be used to alter an organism to provide better products.

Where have I seen this learning before?

Students will have been introduced to variation during year 7.

What could I use it for?

Variation and genetics are revisited again during GCSE. This knowledge is also useful for someone pursuing a career in medicine, scientific research and genetic engineering.

Wk 1. Variation, Wk 3. Natural selection, Wk 5. Extinction.

In LP5.1, I will know:	20/05/24 - (WK 1)	PR Focus	Key Vocabulary	Homework
how to identify the causes of variation in a species; the difference between inherited and environmental variation; the difference between continuous and discontinuous variation.			variation, inherited, environmental	Knowledge organiser tasks
In LP5.2, I will know:	03/06/24 - (WK 2)	PR Focus	Key Vocabulary	Homework
how species are adapted to their environment; how organisms adapt to environmental changes.			adaptation, environment, continuous, discontinuous	Knowledge organiser tasks
In LP5.3, I will know:	10/06/24 - (WK 1)	PR Focus	Key Vocabulary	Homework
the theory of natural selection; how organisms evolve over time; the evidence Darwin presented to support his theory of natural selection. Extended Task			natural selection, Darwin, evolution	Knowledge organiser tasks
In LP5.4, I will know:	17/06/24 - (WK 2)	PR Focus	Key Vocabulary	Homework
the factors that may lead to extinction; how a lack of biodiversity can affect an ecosystem; what is meant by an endangered species.			extinction, endangered, biodiversity	Knowledge organiser tasks
In LP5.5, I will know:	24/06/24 - (WK 1)	PR Focus	Key Vocabulary	Homework
the techniques used to prevent extinction; how to complete week 5 assessment.			conservation, captive breeding, population	Knowledge organiser tasks
In LP5.6, I will know:	01/07/24 - (WK 2)	PR Focus	Key Vocabulary	Homework
how characteristics are inherited; the relationship between DNA, genes and chromosomes; how mutations can affect an organism. Extended Task			DNA, gene, chromosome	Knowledge organiser tasks
In LP5.7, I will know:	08/07/24 - (WK 1)	PR Focus	Key Vocabulary	Homework
the structure of DNA; how scientists discovered the structure of DNA; the difference between dominant and recessive alleles.			base, nucleotide, recessive, dominant	Knowledge organiser tasks
In LP5.8, I will know:	15/07/24 - (WK 2)	PR Focus	Key Vocabulary	Homework
experience week.				Knowledge organiser tasks
Resources to support learning:				
Kerboodle, CGP Revision Guide, Knowledge Organiser.				
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.				

PRT Task 1

PRT Task 2