

# Year 11 Biology Learning Programme 4

Reading texts that pupils will study during the learning programme

Loric 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

Week 1: Global warming, Week 3: Mitosis, Week 5: Vaccination

**What will I be learning about in this Learning Programme?**  
Students will learn about biodiversity and ecosystems.

**Where have I seen this learning before?**  
Students have previously learnt about ecology in Year 8 LP3.

**What could I use it for?**  
Students will greatly benefit from this LP if they study biology beyond GCSE. It will also be of great use in careers such as Veterinarian.

In LP4.1, I will know:	11/03/24 - (WK 1)	PR Focus	Key Vocabulary	Homework
what is meant by global warming; the effect of environmental changes on the distribution of organisms (H); methods used to reduce the impact of human activities on ecosystems and maintain biodiversity.			Greenhouse effect, carbon footprint, biodiversity	Checkpoint quiz B18: 1
<b>In LP4.2, I will know:</b>	<b>18/03/24 - (WK 2)</b>	<b>PR Focus</b>	<b>Key Vocabulary</b>	<b>Homework</b>
the factors that threaten global food security; the need for modern farming techniques.			Pest pathogens agriculture conflict	Checkpoint quiz B18: 2
<b>In LP4.3, I will know:</b>	<b>08/04/24 - (WK 1)</b>	<b>PR Focus</b>	<b>Key Vocabulary</b>	<b>Homework</b>
what is meant by sustainable food production; the role of osmosis and active transport; the process of mitosis. Extended Task			biotechnology fermenter microorganism	Checkpoint quiz B18: Practice 3
<b>In LP4.4, I will know:</b>	<b>15/04/24 - (WK 2)</b>	<b>PR Focus</b>	<b>Key Vocabulary</b>	<b>Homework</b>
how organisms are organised; the role of the circulatory system.			Heart, cell, tissue, blood	Checkpoint test B18: test 3
<b>In LP4.5, I will know:</b>	<b>22/04/24 - (WK 1)</b>	<b>PR Focus</b>	<b>Key Vocabulary</b>	<b>Homework</b>
the effect of pathogens on the body; how a vaccination works; how exercise and smoking can affect health.			bacteria, virus, fungi	Checkpoint test B18: test 1
<b>In LP4.6, I will know:</b>	<b>29/04/24 - (WK 2)</b>	<b>PR Focus</b>	<b>Key Vocabulary</b>	<b>Homework</b>
how to measure the rate of photosynthesis; how oxygen debt develops during anaerobic respiration Extended Task			glucose, light, carbon dioxide	Checkpoint test B18: test 2
<b>In LP4.7, I will know:</b>	<b>06/05/24 - (WK 1)</b>	<b>PR Focus</b>	<b>Key Vocabulary</b>	<b>Homework</b>
the differences between sensory and motor neurones; that reproduction is controlled by hormones; how kidneys work to remove urea from the body.			Stimulus, receptors, response	Checkpoint test B18: practice 3
<b>In LP4.8, I will know:</b>	<b>13/05/24 - (WK 2)</b>	<b>PR Focus</b>	<b>Key Vocabulary</b>	<b>Homework</b>
the process of meiosis; how to describe variation and evolution.			Meiosis, chromosomes, sexual reproduction	Checkpoint test B18: test 3
<b>Resources to support learning:</b>				
Kerboodle, CGP Revision Guide, Knowledge Organiser				
<b>FFET Award Challenge for this Learning Programme:</b>				
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.				

