

Year 10 GCSE Biology Learning Programme 5

The LORIC skill focus for his LP is: COMMUNICATION.

The Moral Virtues focus for this LP are: COURAGE and HUMILITY.

Courage - Acting with bravery and overcoming fears.

Humility - Having a modest view of oneself.

What will I be learning about in this Learning Programme?

How living organisms respire and how this can be manipulated and how the liver is involved in removal of lactic acid.

Where have I seen this learning before?

You have learnt about respiration in KS2 and KS3.

What could I use it for?

You will use this knowledge in A-level Biology and Applied Science.

Literacy:

- 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

In LP5.1, I will know:	11/05/26 - (WK 1)	Key Vocabulary	Homework
the importance of aerobic respiration and the importance of cellular respiration; the amount of energy transferred in anaerobic respiration and how this occurs in plants, bacteria and fungi.		Aerobic	Complete Sparx Science task
In LP5.2, I will know:	18/05/26 - (WK 2)	Key Vocabulary	Homework
the process of fermentation and the products from it; how to investigate anaerobic respiration in yeast.		Fermentation	Complete Sparx Science task
LP5 RLW, I will:	01/06/26 - (WK 1)		
review my learning, recalling and applying key knowledge, and focus on closing any gaps in my knowledge.		Revision	Use revision techniques to prepare for the summative assessment.
In LP5.3, I will know:	08/05/26 - (WK 2)	Key Vocabulary	Homework
how the liver is involved in repaying oxygen debt; how ammonia is formed by deamination; Extended Task.		Deamination	Complete Sparx Science task
In LP5.4, I will know:	15/06/26 - (WK 1)	Key Vocabulary	Homework
how to complete a summative assessment; my strengths and areas of development.		Oxygen debt	Complete Sparx Science task
In LP5.5, I will know:	22/06/26 - (WK 2)	Key Vocabulary	Homework
How the circulatory system, digestive system and respiratory system work together to ensure that respiration can take place in every cell; How and why the body increases heart rate, breathing rate and breathing depth during exercise.		Breathing rate	Complete Sparx Science task
In LP5.6, I will know:	29/06/26 - (WK 1)	Key Vocabulary	Homework
how to investigate the effect of different exercise on pulse rate; how to write up an investigation and analyse results. Extended Task.		Pulse rate	Complete Sparx Science task
In LP5.7, I will know:	06/07/26 - (WK 2)	Key Vocabulary	Homework
what metabolism is; how to complete formative assessment; my strengths and areas of development.		Metabolism	Complete Sparx Science task
Resources to support learning:	Synergy, Seneca learning, GCSE Bitesize bioenergetics, Cognito, EPC knowledge organiser.		
FFET Award Challenge for this Learning Programme:	Investigate respiration of yeast using a balloon, try different temperatures or sugars. Create a time verses circumference graph.		

