



Year 10 Biology Learning Programme 4

Reading texts that pupils will study during the learning programme

Week 1: Photo synthesis, Week 3:

Homeostasis, Week 5: The eye

Loricfor	LP4 is	Initiative
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The value we are learning about is Justice and Integrity:

Justice-Fairbehaviourortreatment

Integrity-Being honest and having strong moral principles

What will I be learning about in this Learning Programme?

 $Students\,will\,learn\,about\,the\,role\,of\,glucose\,in\,plants\,and\,how\,the\,human\,body\,controls\,its\,internal\,environ\,ment.$

Where have I seen this learning before?

Students have previously learnt about Photosynthesis in Year 8 LP2 and the Human body in Year 7 LP3.

11/03/24 - (WK1)

18/03/24 - (WK 2)

how to describe how your body meets increased demands for energy during exercise.

how to explain the different factors affecting the rate of photosynthesis;

how to explain why less energy is transferred during an aerobic respiration;

how to describe that metabolism is the sum of all reactions in the body.

What could luse it for?

In LP4.1, I will know:

Students will greatly benefit from this LP if they study biology beyond GCSE. It will also be of great use for careers in Health care.

KeyVocabulary	Homework
Photosynthesis,	
glucose, oxygen, carbon	Checkpoint quiz B4 1

Homework

Homework

Checkpoint quiz B4: 2

Checkpoint quiz B4: Practice 3



In LP4.3, I will know: 08/04/24 - (WK 1)

how to explain the chemistry of aerobic respiration;

how to explain why it is important to maintain your internal environment; how to describe why you need a nervous systemand investigate the effect of a factor on human reaction time

Extended Task

In LP4.4, I will know:	15/04/24 - (WK 2)
how to describe the main areas of the brain and their function;	

how to explain why reflexes are important in your body.

how to explain the main parts of the eye and how the structure is related to its functions.

PR Focus Key Vocabulary Homework

temperature, water, salt

dioxide.

glycogen

KeyVocabulary

KeyVocabulary

Homeostasis,

levels. Glucose

Aerobic, exothermic,

Cerebral cortex, cerebellum, medulla, Checkpointtest B4: test 3

In LP4.5, I will know: 22/04/24 - (WK 1)

how to describe what happens in short sightedness and long sightedness;

how to explain the main organs of the endocrine system.

PR Focus Key Vocabulary H

Key Vocabulary

KeyVocabulary

Checkpoint test B4: test 1

Homework

Homework

Homework

In LP4.6, I will know: 29/04/24 - (WK 2)

how to describe the role of the pancreas in controlling blood glucose concentration;

how to explain the differences in type 1 and type 2 diabetes.

Insulin, glucagon, glucose, glycogen

nerve

PR Focus

PR Focus

PR Focus

PR Focus

PR Focus

PR Focus

Checkpoint test B4: test 2

Extended Task

In LP4.7, I will know: 06/05/24 - (WK1)

how to explain the importance of negative feedback systems; how to describe the role of hormones during puberty.

Increase, decrease, negative feed back, adrenaline, thyroxine.

TH FSH

Checkpoint test B4: practice 3

In LP4.8, I will know: 13/05/24 - (WK 2) how to describe the role of the main human reproductive hormones;

how to compare different methods of hormonal and non hormonal contraception.

Key Vocabulary Homework

Oestrogen, progesterone,

Checkpoint test B4: test 3

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 or be invited to a principals lunch, attend a residential trip, achieve the Duke of Edinburgh bronze award.