



# Year 10 Biology

# **Learning Programme 4**

THE LOTTIC SKIII TOCKS TOT THS ET 15: HATTIVATAE.	Literacy:
THE WORD VILLUES TOUGHTON LINES LE DIE. INTEGRITT DIE GRATITODE.	Capital letters must be used at the start
Integrity - Having strong moral principles.	of sentences and for the first letter of
IGratitude - Feeling and expressing thanks	<ul> <li>Full stops must be used at the end of a</li> </ul>
What will be beginning the stirate's proving Province 2	sentence
You are learning about communicable disease and bioenergetics.	Question marks must be used at the
	end of a question
	Apostrophes should only be used for

#### Where have I seen this learning before?

You have learnt about photosynthesis and plant structure at KS3 and plants at KS2.

possession or omission

Days of the week and months must be spelled correctly

## Key words must be spelled correctly

### What could I use it for?

You will use this knowledge in A-level Biology, BTEC Applied Science and if you pursue a BSc in Biology.

In LP4.1, I will know:	10/03/25 - (WK 2)	Key Vocabulary	Homework
the global use of vaccinations;			Complete Sparx Science task
how to complete a summative assessment.			
		Vaccination	
In LP4.2, I will know:	17/03/25 - (WK 1)	Key Vocabulary	Homework
the former of coefficient operations is a second	adata ta a sa taba a sa sa Caratta ta ta		C

2. 112, 1 m. m.o	itcy vocabalaly	Homework
the impact of antibiotic-resistant bacteria and the issues with overuse of antibiotics;		Complete Sparx Science task
why 'double-blind' trials are conducted.		
	Double-blind	

In LP4.3, I will know: 24/03/25 - (WK 2)	Key Vocabulary	Homework
that bacteria cell division by binary fission and explain how to grow an uncontaminated culture of bacteria in the lab and explain how		Complete Sparx Science task
they are used;		
how to investigate the effect of disinfectants on bacterial growth and calculate the number of bacteria in a population.	Binary fission	

### Extended Task.

In LP4.4, I will know:	31/03/25 - (WK 1)	Key Vocabulary	Homework
how to review the data from the investigations of disinfectants on bacterial growth;			Complete Sparx Science task
how plants defend against pathogens, and the symptoms and identification methods of some plant diseases.			
		Disinfectant	

# 14 (04 (25 (1884 2)

how to name non-communicable diseases, give risk factors for disease and explain what a causal mechanism is;
how smoking affects the risk of developing cardiovascular disease, lung disease and lung cancer, how alcohol affects the liver, brain and the effect of smoking and alcohol on unborn babies.

Cardiovascular disease

In LP4.6, I will know:	28/04/25 - (WK 1)	Key Vocabulary	Homework
the effect of diet and exercise on the development of disease;			Complete Sparx Science task
what a tumour is and how to compare benign and malignant tumou	rs.		
		C	

### Extended Task.

	In LP4.7, I will know:	05/05/25 - (WK 2)	Key Vocabulary	Homework
	the balanced symbol equation for photosynthesis and explain how	the leaf's structure is adapted for photosynthesis;		Complete Sparx Science task
V	the effects of limiting factors on photosynthesis and food production	n.		
1			Photosynthesis	

#### Resources to support learning

Knowledge organiser, synergy, Sparx Science.

#### FFET Award Challenge for this Learning Programme

LP4 Year 10 Science: Create a revision resource on a topic of your choice.



