

Year 2 Biology A Level Scheme of Work 2024-25

Week beg.	Content	Test	Practical
9/9/24	5.1.3 Neuronal communication <i>(Flipped learning – structure of different types of neurone)</i>	Induction Test: Test 1	
16/9/24	5.1.3 Neuronal communication *Neurology model answer activity	Ecosystems, populations and Statistics Test 2	**ASSESSED PRACTICAL PAG 11 OCR 11.2 Investigation into heart rate changes in Daphnia in response to environmental change
23/9/24	5.1.5 Neurology/animal responses g, h, I k, l)		
30/9/24	5.1.1 Homeostasis (temperature control) <i>(Flipped learning – Thermoregulation)</i>		
7/10/24	5.1.4 Hormonal regulation (animal responses j-k)		Histology of pancreas microscope slides
14/10/24	5.1.5 Plant responses (a-f) *Plant hormones evaluate Q model activity (careful which test used!)	Neurology Test 3	
21/10/24	5.1.5 Plant responses / 5.1.2 Excretion (liver) <i>(Flipped learning – Commercial uses of plant hormones)</i>		
Half term (28th Oct to 1st Nov)			
4/11/24	5.1.2 Excretion (Liver/kidney) <i>(Flipped learning – structure of kidney)</i>		Microscopy of pre-prepped liver slides
11/11/24	5.1.2 Excretion (Kidney) *Excretion data analysis and ultrafiltration vs tissue fluid model answer activities	Hormones, homeostasis & Plant responses Test 4	Microscopy of pre-prepped kidney slides
18/11/24	5.1.2 Excretion (Kidney) / 5.2.1 Photosynthesis		
25/11/24	5.2.1 Photosynthesis <i>(Flipped learning – Limiting factors of photosynthesis)</i>		**ASSESSED PRACTICAL PAG 6 OCR 6.3 Investigation using thin layer chromatography to separate photosynthetic pigments
2/12/24	5.2.1 Photosynthesis *Photosynthesis practical model answer activity	Excretion Test 5	
9/12/24	5.2.2 Respiration <i>(Flipped learning – structure of a mitochondrion and need for respiration)</i> *Energy requirements model answer activity		
16/12/24	5.2.2 Respiration		
End of Autumn term (Christmas break 19th Dec – 5th Jan)			
6/1/25	5.2.2 Respiration		**ASSESSED PRACTICAL PAG 12 OCR 12.1 Investigation into respiration rate of yeast?
13/1/25	5.2.2 Respiration / 6.1.1 Cellular control <i>(Flipped learning – recap of DNA and protein synthesis)</i>		
20/1/25	6.1.1 Cellular control	Photosynthesis & Respiration Test 6	**ASSESSED PRACTICAL PAG 10 OCR 10.3 measuring pH change during yoghurt practical
27/1/25	6.1.2 Patterns of inheritance		

	<i>(Flipped learning – causes and types of variation)</i>		
3/2/25	6.1.2 Patterns of inheritance		(OCR 12.2 Genetic crosses of fruit flies - optional)
10/2/25	6.1.2 Patterns of inheritance <i>(Flipped learning – Artificial selection)</i> *Selective breeding model answer activity	Cellular control / inheritance Test 7	
Spring half term break (17th – 21st Feb)			
24/2/25	2A mid-year/contingency exams?		
3/3/25	6.1.3 Manipulating genomes <i>(Flipped learning – recap of DNA replication)</i>		(OCR 6.2 Electrophoresis of DNA - optional)
10/3/25	6.1.3 Manipulating genomes		(PAG 10 - OCR 10.1 RASMOL - planned study)
17/3/25	6.1.3 Manipulating genomes		
24/3/25	6.2.1 Cloning and Biotechnology <i>(Flipped learning – uses of microorganisms in biotechnology)</i>		**ASSESSED PRACTICAL PAG 7 OCR 7.1 The effect of antibiotics on bacterial growth
31/3/25	6.2.1 Cloning and Biotechnology	Genomes, Cloning and Biotechnology Test 8	Immobilised enzyme practical?
Easter Break (5th to 21st April)			
22/4/25	REVISION		
28/4/25	REVISION		
5/5/25	REVISION		
12/5/25	REVISION		
19/5/25	STUDY LEAVE from??		

KEY DATES:

H420/1 Biological processes 2 h 15 min -

H420/2 Biological diversity 2 h 15 min –

H420/3 Unified biology 1 h 30 min –

Flipped learning opportunities in bold/italics - Set students some structured work/research, e.g. to make flashcards, poster, complete the study guide pages, research part to feedback to group etc. Then in class time assess knowledge and practice application (but no need to re-teach this part).

***Model answer activities in bold** – These are saved in the model answers activities folder, organised by topic. Aim to build on this so there is one activity at least per topic. Additional examples can also be done and shared/saved in the folder.

