

Year 1 Biology A level Scheme of Work 2024-25 (Single Teacher)

Week	Content	Test	Practical
9/9/24	2.1.1 Microscopy and cells <i>(Flipped learning – Cell structures set as summer work)</i>	1A induction Test: Test 1	
16/9/24	2.1.1 Microscopy and cells		Microscopy practical work (not PAG)
23/9/24	2.1.2 Biological molecules (water and carbohydrates) <i>(Flipped learning – Biological molecules work done as summer work)</i>		(Biological molecule modelling)
30/9/24	2.1.2 Biological molecules (Proteins and Lipids)		**ASSESSED PRACTICAL PAG 9 OCR 9.3 Qualitative testing for biological molecules – glucose/ benedict’s test
7/10/24	2.1.2 Biological molecules (Proteins, Lipids, inorganic molecules) / 2.1.3 Nucleic acids <i>(Flipped learning – DNA structure)</i>	Microscopy & Cell structure Test 2	(OCR 9.1 Qualitative testing – proteins back up PAG 9)
14/10/24	2.1.3 Nucleic acids	Biological molecules Test 3	(OUP 3.8 DNA precipitation & Modelling)
21/10/24	2.1.3 Nucleic acids / 2.1.4 Enzymes <i>(Flipped learning – basic enzyme terms and function)</i>		
Half term (28th Oct to 1st Nov)			
4/11/24	2.1.4 Enzymes *Enzyme exam model answer activity		**ASSESSED PRACTICAL PAG 4 OCR 4.1 The effect of substrate concentration on the rate of an enzyme-controlled reaction
11/11/24	2.1.5 Biological membranes <i>(Flipped learning – Cell membrane structure)</i>	Nucleotides and Enzymes Test 4	
18/11/24	2.1.5 Biological membranes *Membranes experimental model answer activity		**ASSESSED PRACTICAL PAG 5 OCR 5.1 Membrane permeability
25/11/24	2.1.5 Biological membranes / 2.1.6 Cell division and diversity		**ASSESSED PRACTICAL PAG 8.1 OCR 8.1 Investigating water potential of potato
2/12/24	2.1.6 Cell division and diversity <i>(Flipped learning – Types of specialised cell)</i>		
9/12/24	2.1.6 Cell division and diversity	Biological membranes & cell division and diversity Test 5	**ASSESSED PRACTICAL PAG 1 OCR 1.1 Mitosis in <i>Allium</i> sp. root tips
16/12/24	3.1.1 Exchange surfaces		
End of Autumn term (Christmas break 19th Dec – 5th Jan)			
6/1/25	3.1.1 Exchange surfaces <i>(Flipped learning – Structure of mammalian gas exchange system)</i>		OCR 1.3: Lung structure microscopy Demo: Lung Dissection (pluck)
13/1/25	3.1.1 Exchange surfaces *Spirometer evaluate model answer activity		(SA:Vol in agar gel cubes) Demo: Fish gill dissection
20/1/25	3.1.2 Transport in animals	Mid-year exam test 6?	
27/1/25	3.1.2 Transport in animals <i>(Flipped learning – Structure of heart, prep for dissection)</i>		**ASSESSED PRACTICAL PAG 2 OCR 2.1 Dissection of the mammalian heart

3/2/25	3.1.2 Transport in animals *Fish and mammal circulation compare model answer activity		
10/2/25	3.1.3 Transport in plants (Flipped learning – Location of xylem and phloem in root, stem and leaf)	Gas Exchange & Animal Transport Test 7	
Spring half term break (17th – 21st Feb)			
24/2/25	3.1.3 Transport in plants		Demo: OCR 5.3 Using a Potometer
3/3/25	3.1.3 Transport in plants/4.1.1 Disease and immunity * Plant transport model answer (not if doing test B!)		**ASSESSED PRACTICAL PAG 2 OCR 2.2 Dissection of a stem
10/3/25	4.1.1 Disease and immunity		
17/3/25	4.1.1 Disease and immunity (Flipped learning – Different diseases on spec) *Role of T cells model answer activity		
24/3/25	4.2.1 Biodiversity and statistics	Transport in plants & Disease and immunity Test 8	
31/3/25	4.2.1 Biodiversity and statistics (Flipped learning – Conservation agreements) * Biodiversity wildcats model answer (not if doing test B!)		
Easter Break (5th to 21st April)			
22/4/25	4.2.2 Classification and Evolution (Flipped learning – Adaptations)		(OCR 1.2 Prepared blood smear slides)
28/4/25	4.2.2 Classification and Evolution		
5/5/25	6.3.1 Ecosystems		
12/5/25	1A study leave/transfer exams?		
19/5/25	1A study leave/transfer exams?		
Half term (26th – 30th May)			
2/6/25	1A WEX week?		
9/6/25	6.3.1 Ecosystems (Flipped learning – Carbon cycle)		
16/6/25	6.3.1 Ecosystems	Biodiversity, evolution and classification test Test 9	
23/6/25	6.3.1 Ecosystems/6.3.2 Populations		OCR Bear Island game
30/6/25	6.3.2 Populations (Flipped learning – Sustainable timber and fishing)		
7/7/25	6.3.2 Populations		
End of summer term for 1A students Thursday 10th July?			

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.