Year 1 Biology A level Scheme of Work 2024-2025 (Two Teachers)

Week beg.	T1 Content	T2 Content	Test	Practical
9/9/24	2.1.1 Microscopy and cells ***(Flipped learning – Cell structures set as summer work)***	2.1.2 Biological molecules (water and Carbohydrates)	1A Induction test: **Test 1**	Microscopy practical work (not PAG)
16/9/24	2.1.1 Microscopy and cells	2.1.2 Biological molecules (water and Carbohydrates) ***(Flipped learning – Biological molecules work done as summer work)***		(Biological molecule modelling - molymod)
23/9/24	2.1.1 Microscopy and cells	2.1.2 Biological molecules (Proteins and lipids)		****ASSESSED PRACTICAL PAG 9** OCR 9.3 Qualitative testing for biological molecules – glucose/ benedict's test
30/9/24	2.1.1 Microscopy and cells	2.1.2 Biological molecules (lipids and proteins)		(OCR 9.1 Qualitative testing – proteins back up PAG 9)
7/10/24	2.1.3 Nucleic acids ***(Flipped learning – DNA structure)***	2.1.2 Biological molecules (Inorganic ions)	Microscopy & Cell structure **Test 2**	
14/10/24	2.1.3 Nucleic acids	2.1.4 Enzymes ***(Flipped learning – basic enzyme terms and function)***	Biological molecules **Test 3**	****ASSESSED PRACTICAL PAG 4** OCR 4.1 Effect of substrate concentration on enzyme rate
21/10/24	2.1.3 Nucleic acids	2.1.4 Enzymes		
Half term (28th Oct to 1st Nov)				
4/11/24	2.1.5 Biological membranes ***(Flipped learning – Cell membrane structure)***	2.1.4 Enzymes ***Enzyme exam model answer activity**		(OUP 3.8 DNA precipitation & Modelling)
11/11/24	2.1.5 Biological membranes	2.1.6 Cell division and diversity ***(Flipped learning – Types of specialised cell)***	Nucleotides and Enzymes **Test 4**	****ASSESSED PRACTICAL PAG 8.1** OCR 8.1 Investigating water potential of potato
18/11/24	2.1.5 Biological membranes	2.1.6 Cell division and diversity		
25/11/24	2.1.5 Biological membranes ***Membranes experimental model answer activity**	2.1.6 Cell division and diversity		****ASSESSED PRACTICAL PAG 5** OCR 5.1 Membrane permeability
2/12/24	2.1.5 Biological membranes	2.1.6 Cell division and diversity		
9/12/24	3.1.1 Exchange surfaces	2.1.6 Cell division and diversity	Biological membranes & cell division and diversity **Test 5**	****ASSESSED PRACTICAL PAG 1** OCR 1.1 Mitosis in *Allium* sp. root tips
16/12/24	3.1.1 Exchange surfaces ***(Flipped learning – Structure of mammalian gas exchange system)***	3.1.2 Transport in animals		
End of Autumn term (Christmas break 19th Dec – 5th Jan)				
6/1/25	3.1.1 Exchange surfaces	3.1.2 Transport in animals		OCR 1.3: Lung structure microscopy **Demo:** Lung Dissection (pluck)
13/1/25	3.1.1 Exchange surfaces	3.1.2 Transport in animals ***(Flipped learning – Structure of heart, prep for dissection)***		(SA:Vol in agar gel cubes) **Demo:** Fish gill dissection
20/1/25	3.1.1 Exchange surfaces ***Spirometer evaluate model answer activity**	3.1.2 Transport in animals	**Mid-year exam Test 6** ?	
27/1/25	3.1.1 Exchange surfaces	3.1.2 Transport in animals		****ASSESSED PRACTICAL PAG 2** OCR 2.1 Dissection of the mammalian heart
3/2/25	3.1.3 Transport in plants	3.1.2 Transport in animals		

	(Flipped learning – Location of xylem and phloem in root, stem and leaf)	***Fish and mammal circulation compare model answer activity**		
10/2/25	3.1.3 Transport in plants	4.1.1 Disease and immunity	Gas Exchange & Animal Transport **Test 7**	
Spring half term break (17th – 21st Feb)				
24/2/25	3.1.3 Transport in plants	4.1.1 Disease and immunity ***(Flipped learning – Different diseases on spec)***		
3/3/25	3.1.3 Transport in plants	4.1.1 Disease and immunity		**Demo:** OCR 5.3 Using a Potometer
10/3/25	3.1.3 Transport in plants *** Plant transport model answer (not if doing test B!)**	4.1.1 Disease and immunity		****ASSESSED PRACTICAL PAG 2** OCR 2.2 Dissection of a stem
17/3/25	4.2.2 Classification & Evolution	4.1.1 Disease and immunity ***Role of T cells model answer activity**		(OCR 1.2 Prepared blood smear slides)
24/3/25	4.2.2 Classification & Evolution ***(Flipped learning – Adaptations)***	4.2.1 Biodiversity and statistics	Transport in plants & Disease and immunity **Test 8**	
31/3/25	4.2.2 Classification & Evolution	4.2.1 Biodiversity and statistics		
Easter Break (5th to 21st April)				
22/4/25	4.2.2 Classification & Evolution	4.2.1 Biodiversity and statistics***(Flipped learning – Conservation agreements)***		
28/4/25	4.2.2 Classification & Evolution	4.2.1 Biodiversity and statistics *** Biodiversity wildcats model answer (not if doing test B!)**		
5/5/25	6.3.1 Ecosystems	6.3.2 Populations		
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	6.3.2 Populations		
16/6/25	6.3.1 Ecosystems ***(Flipped learning – Carbon cycle)***	6.3.2 Populations	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	6.3.1 Ecosystems	6.3.2 Populations ***(Flipped learning – Sustainable timber and fishing)***		
7/7/25	6.3.1 Ecosystems	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.