

Year 12 A-Level Biology Teaching Schedule 2023-2024

Name of Specification Point	Approx. No.	Completed by	PAGs for Completion	Class	Taught by
2.1.1 Cell structure	13	Sep/Oct 2023	PAG 1 Cells through the light microscope	12C	JLW
				12D	VRT
2.1.2 Biological molecules	12	Sep/Oct 2023	PAG 9 Qualitative testing	12C	DM
				12D	
2.1.3 Nucleotides and nucleic acids	9	Nov 2023	PAG 10.1 Investigating DNA structure using RasWin	12C	DM
				12D	
2.1.5 Biological membranes	9	Oct/Nov 2023	PAG 5.1 The effect of temperature on membrane permeability PAG 8.1 An investigation into the water potential of potato	12C	JLW
				12D	VRT
2.1.6 Cell division, cell diversity and cellular organisation	7	Nov/Dec 2023	PAG 1.1 Using the light microscope to study mitosis	12C	JLW
				12D	VRT
Assessment Two Due 18 th December with Attainment Grade. End of topic tests to be completed W/C 11 th December					
2.1.4 Enzymes	13	Dec/Jan 2024	PAG 4.1 The effect of substrate concentration on the rate of an enzyme controlled reaction PAG 4.2 The effect of enzyme concentration on the rate of a reaction PAG 12 Investigating the effect of temperature on amylase activity	12C	DM
				12D	
3.1.3 Transport in plants	10	Dec/Jan 2024	PAG 8 The effect of surface area: volume ratio on diffusion rate	12C	JLW

			PAG 5.2 Determining glucose concentration (students should be able to complete now)	12D	VRT
4.1.1 Communicable diseases, disease prevention and immune system	12	Feb 2024		12C	JLW
				12D	VRT
Test to be completed W/C 30 th January					
3.1.1 Exchange surfaces	8	Feb 2024	PAG 1.3 Using the light microscope to examine lung tissue PAG 10 Investigating pulmonary ventilation	12C	DM
3.1.2 Transport in animals	10	Mar 2024	PAG 2.1 Dissection of the mammalian heart	12D	
4.2.1 Biodiversity	7	Mar 2024	PAG 3.1 The calculation of species diversity	12C	JLW
				12D	VRT
Assessment Four Due 26 th March with Attainment Grade. End of topic tests to be completed W/C 18 th March					
4.2.2 Classification and evolution	9	April 2024		12C	JLW
				12D	VRT
6.3.1 Ecosystems	11	May 2024	PAG 3.2 Measurement of the distribution and abundance of plants in a habitat	12C	JLW
				12D	VRT
6.3.2 Populations and sustainability	11	May 2024		12C	DM
				12D	
UCAS Exams W/C 3 rd June, Modules 1-4 must be completed by then. UCAS grades and comments due 2 nd July 2024					

Year 13 A-Level Biology Teaching Schedule 2023-2024

Name of Specification Point	Approx. No.	Completed by	PAGs for Completion	Class	Taught by
5.2.2 Respiration	8	Sep/Oct 2023	PAG 11 Investigating the rate of respiration in small invertebrates PAG 12.1 Investigation into the respiration rate of <i>Saccharomyces cerevisiae</i>	13B	JLW
				13C	
5.2.1 Photosynthesis	12	Sep/Oct 2023	PAG 4 The effect of different wavelengths of light on the rate of photosynthesis PAG 6 Investigation using thin layer chromatography to separate photosynthetic pigments	13B	DM
				13C	
5.1.3 Neuronal communication	6	Oct/Nov 2023		13B	DM
				13C	
5.1.4 Hormonal communication	9	Oct/Nov 2023		13B	JLW
				13C	
5.1.1 Communication and homeostasis	2	Nov 2023		13B	DM
				13C	
5.1.5 Plant Responses	6	Nov/Dec 2023		13B	JLW
				13C	
Assessment Two Due 18 th December with Attainment Grade. End of topic tests to be completed W/C 11 th December					
5.1.2 Excretion as example of homeostatic control	8	Dec/Jan 2023	PAG 2 Dissection of a mammalian kidney	13B	DM
				13C	
Mocks take place 4 th January – Results due on SIMS 26 th January					

6.1.1 Cellular control	7	Feb 2024	PAG 9 The purification of DNA by precipitation	13B	JLW
				13C	
6.2.1 Cloning and biotechnology	10	Feb/Mar 2024	PAG 7.1 The effect of antibiotics on bacterial growth	13B	DM
				13C	
6.1.2 Patterns of inheritance	11	Mar 2024		13B	JLW
				13C	
6.1.3 Manipulating genomes	8	Mar 2024	PAG 6 Electrophoresis of DNA fragments for analysis	13B	DM
				13C	
Subject Final Assessments Due 19 ^h March with Attainment Grade. End of topic tests to be completed W/C 11th March					
Revision and Test Preparation – A-level Exams start approximately 4 th May 2024					