

Year 12 Biology

	Tracking and Key Dates	NAT (4)	BSP (5)
04-Sep	Inset Mon&Tues	Skills/Intro	Skills/Intro
11-Sep	Data Collection Opens	2.2 Biological molecules 1. Water 2. Qualitative Biochemical tests	2.1 Cell structure 1. Introduction to the microscope & staining 2. Magnification & Drawing 3. Graticule & Drawing & mean
18-Sep	21st Open Evening CRD Deadline	<u>PAG 9 - 1-3</u> 3. Biochemistry concepts	4. Resolution, electron microscopes & drawing <u>PAG1.3</u> 5. Cell Ultrastructure
25-Sep	Testing Week	4. Monosaccharides and disaccharides 5. Starch and glycogen	6. Role and function of organelles 7. Cytoskeleton TESTING
02-Oct	Appraisal deadline	6. Cellulose 7. Quantitative Biochemical Tests <u>PAG 5 - 2</u>	Feedback 8. Organelles and protein secretion
09-Oct	Data Collection Closes	8. Lipids 9. Amino acids & peptide bonds	9. Prokaryotes and Eukaryotes 2.5 Biological Membranes 2. Permeability <u>PAG 5- 1</u>

16-Oct		10. Protein structure 11. Property and function of proteins	3. Diffusion 4. Osmosis
23-Oct	AUTUMN HALF TERM		
30-Oct	Inset Mon	13. Inorganic ions 12. Separating and identifying molecules	<u>PAG8 - 2</u> 5. Water potential <u>PAG 8-1</u>
06-Nov	Data Collection Opens	2.3 Nucleotides and nucleic acids 1. Nucleotides and DNA structure	6. Active processes 2.6 Cell division, cell diversity & cell differentiation 1. Cell cycle
13-Nov		<u>PAG 10- 1 computer room</u> 2. DNA precipitation	2. Mitosis 3. Root tip Squash <u>PAG 1- 1</u> 4. Meiosis
20-Nov	Observation Week	3. DNA replication 4. Genetic code, RNA and protein synthesis	5. Cell diversity & organisation 6. Stem cells
27-Nov	Testing Week	2.4 Enzymes 1. Enzymes 2. Mechanism and cofactors	Testing Feedback
04-Dec	Data Collection Closes (Y11)	3. Temperature 4. pH	3.3 Transport in plants 1. Transport in plants <u>PAG2 - 2</u> 2. Transport tissues

11-Dec	Data Collection Closes	5. Enzyme Conc PAG 4-2	3. Movement of water through the plant 4. Transpiration 5. Transpiration stream
18-Dec	School Finishes 19th Dec		
25-Dec	CHRISTMAS		
01-Jan	School Resumes 3rd Jan	Year 12-13 Mock	
08-Jan	Year 10 Work Experience	6. Substrate Conc PAG 4-1 7. Inhibitors, poisons and drugs	Feedback
15-Jan	Work Scrutiny Week	3.1 Exchange surfaces and breathing 1. Exchange surfaces 2. Structure of mammalian gas exchange system	6. Adaptations of plants to the availability of water 7. Translocation
22-Jan	Data Collection Closes (Y12&13)	3. Tissues in the lung 4. Breathing and measuring lung volumes	4.3 Classification & Evolution 1. Classification 2. Features of the kingdoms
29-Jan	Data Collection Closes	5. Gas exchange in bony fish 6. Gas exchange in insects	3. Classification & phylogeny & molecular evidence used 4. Variation 6. Adaptation



05-Feb		3.2 Transport in animals 1. Transport in animals 2. Blood vessels	7. Natural Selection & Evolution 8. Evidence for natural selection
12-Feb	SPRING HALF TERM		
19-Feb		3. Exchange at capillaries 4. Structure of the heart	4.2 Biodiversity 1. Biodiversity 2. Sampling Plants
26-Feb	Observation Week Data collection Opens	PAG 2 -1 5. Cardiac Cycle	PAG 3 - 2 3. Sampling animals 4. Calculating biodiversity
05-Mar		MOCKS 11-13	
12-Mar			
19-Mar	Data collection Yr11-13	Feedback 6. Control of the cardiac cycle	Feedback 5. Factors affecting biodiversity and reasons to maintain it
26-Mar	Data Collection Closes Yr 7-10 School Finishes 29th Mar	7. Transport of Oxygen 8. Transport of carbon dioxide	6. Conservation 7. Protection of species and habitats
02-Apr	EASTER		



09-Apr			
16-Apr		4.1 Communicable disease 1. Organisms causing disease 2. Transmission of pathogens	5. Statistical Tests - SD, T-test, Spearmans, chi-squared
23-Apr	Data Collection Opens	4. Primary defence against disease 5. Secondary non-specific defence	4.1 Communicable disease 3. Plant defences against pathogens 9. Development and use of drugs
30-Apr		6. Specific immune response 7. Antibodies	8. Vaccination
07-May			
14-May	Data Collection Closes		
21-May		24th May Breadth Paper pm	
28-May	SUMMER HALF TERM		



04-Jun		4th June Depth Paper PM	
11-Jun			
18-Jun			
25-Jun			
02-Jul			
09-Jul			
16-Jul	School Finishes 20th July		