

Subject/ Exam Board	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
OCR A						
Yr 12		3.4 Testing for carbohydrates				
	3.2 Water	6.1 Cell cycle				
	4.1 Enzyme action	2.1 Microscopy	5.2 Factors affecting membrane structure		8.1 Transport systems in multicellular animals	
	3.1 Biological elements	2.3 More microscopy			8.2 The blood vessels	
	4.1 Enzyme action	6.2 Mitosis	12.3 The transmission of communicable diseases		10.6 Recording variation graphically	9.1 Transport systems in dicotyledonous plants
		6.3 Meiosis	5.3 Diffusion	7.2 Mammalian gaseous exchange system	8.5 The heart	9.2 Water transport in multicellular plants
	3.3 Carbohydrates	2.2 Magnification and calibration	12.5 Non-specific animal defences against pathogens	10.2 The five kingdoms	10.7 Adaptations	11.5 Calculating genetic biodiversity
	3.5 Lipids	2.4 Eukaryotic cell structure	5.4 Active transport	7.3 Measuring the process	10.8 Changing population characteristics	9.5 Plant adaptations to water availability
	4.2 Factors affecting enzyme activity	6.4 The organisation and specialisation of cells	12.4 Plant defences against pathogens	10.3 Phylogeny	8.3 Blood, tissue fluid, and lymph	9.3 Transpiration
	3.6 Structure of proteins	2.5 The ultrastructure of plant cells	5.5 Osmosis	7.4 Ventilation and gas exchange in other organisms	11.1 Biodiversity	11.6 Factors affecting biodiversity
	3.7 Types of proteins	2.6 Prokaryotic and eukaryotic cells	12.6 The specific immune system	10.4 Evidence for evolution	8.4 Transport of oxygen and carbon dioxide	11.7 Reasons for maintaining biodiversity
	3.8 Nucleic acids	6.5 Stem cells	12.7 Preventing and treating disease	10.5 Types of variation	11.2 Sampling	9.4 Translocation
	3.9 DNA replication and the genetic code	12.1 Animal and plant pathogens	7.1 Specialised exchange surfaces		11.3 Sampling techniques	11.8 Methods for maintaining biodiversity
	4.3 Enzyme inhibitors	5.1 The structure and function of membranes	10.1 Classification		11.4 Calculating biodiversity	
	3.10 Protein Synthesis	12.2 Animal and plant diseases				
	3.11 ATP					
	4.4 Cofactors, coenzymes, and prosthetic groups					

Yr 13	13.1 Coordination	13.9 Voluntary and involuntary muscles	14.3 Regulation of blood glucose concentration	17.1 Energy cycles	Review weeks	Study Leave
	19.1 Mutations and variation	13.10 Sliding filament model	14.4 Diabetes and its control	17.2 ATP synthesis		
	14.1 Hormonal communication	20.5 Evolution	24.1 Population size	22.1 Natural cloning in plants		
	15.1 The principles of homeostasis	15.2 Thermoregulation in ectotherms	13.2 Neurones	22.2 Artificial cloning in plants		
	19.2 Control of gene expression	15.3 Thermoregulation in endotherms	13.4 Nervous transmission	18.1 Glycolysis		
	19.3 Body plans	20.6 Species and artificial selection	24.2 Competition	18.2 The link reaction		
	13.3 Sensory receptors	15.4 Excretion, homeostasis, and the liver	24.3 Predator-prey relationships	18.3 Krebs cycle		
	13.7 Structure and function of the brain	21.2 DNA sequencing and analysis	13.5 Synapses	18.4 Oxidative phosphorylation		
	20.1 Variation and inheritance	15.5 The structure and function of the mammalian kidney	13.8 Reflexes	22.3 Cloning in animals		
	20.2 Monogenetic inheritance	21.3 Using DNA sequencing	24.4 Conservation and preservation	18.5 Anaerobic respiration		
	13.6 Organisation of the nervous system	15.6 The kidney and osmoregulation	24.5 Sustainability	18.6 Respiratory substrates		
	14.5 Coordinated responses	21.1 DNA profiling	16.1 Plant hormones and growth in plants	22.4 Microorganisms and biotechnology		
	20.3 Dihybrid inheritance	15.7 Urine and diagnosis	16.2 Plant responses to abiotic stress	22.5 Microorganisms, medicines, and bioremediation		
	14.6 Controlling heart rate	15.8 Kidney failure	24.6 Ecosystem management – Masai mara	17.3 Photosynthesis		
	20.4 Phenotypic ratios	14.2 Structure and function of the pancreas	24.7 Ecosystem management – Terai region of Nepal	17.4 Factors affecting photosynthesis		
		21.4 Genetic engineering	24.7 Ecosystem management – Terai region of Nepal	22.6 Culturing microorganisms in the laboratory		
		21.5 Gene technology and ethics	24.8 Ecosystem management – Peat bogs	22.7 Culturing microorganisms on an industrial scale		
			24.9 Environmentally sensitive ecosystems	22.8 Using immobilised enzymes		
			16.4 Tropisms in plants			
			23.1 Ecosystems			
			23.2 Biomass transfer through an ecosystem			
			16.3 Plant responses to herbivory			
			16.5 The commercial use of plant hormones			
			23.3 Recycling within ecosystems			
		23.4 Succession				
		23.5 Measuring distribution & abundance of organisms				