Subject/ Exam Board OCR A	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1
Yr 12	 3.2 Water 3.1 Enzyme action 3.1 Biological elements 4.1 Enzyme action 3.3 Carbohydrates 3.5 Lipids 4.2 Factors affecting enzyme activity 3.6 Structure of proteins 3.7 Types of proteins 3.8 Nucleic acids 3.9 DNA replication and the genetic code 4.3 Enzyme inhibitors 3.10 Protein Synthesis 3.11 ATP 4.4 Cofactors, coenzymes, and prosthetic groups 	3.4 Testing for carbohydrates 6.1 Cell cycle 2.1 Microscopy 2.3 More microscopy 6.2 Mitosis 6.3 Meiosis 2.2 Magnification and calibration 2.4 Eukaryotic cell structure 6.4 The organisation and specialisation of cells 2.5 The ultrastructure of plant cells 2.6 Prokaryotic and eukaryotic cells 6.5 Stem cells 12.1 Animal and plant pathogens 5.1 The structure and function of membranes	5.2 Factors affecting membrane structure 12.3 The transmission of communicable diseases 5.3 Diffusion 12.5 Non-specific animal defences against pathogens 5.4 Active transport 12.4 Plant defences against pathogens 5.5 Osmosis 12.6 The specific immune system 12.7 Preventing and treating disease 7.1 Specialised exchange surfaces 10.1 Classification	 7.2 Mammalian gaseous exchange system 10.2 The five kingdoms 7.3 Measuring the process 10.3 Phylogeny 7.4 Ventilation and gas exchange in other organisms 10.4 Evidence for evolution 10.5 Types of variation 	 8.1 Transport systems in manimals 8.2 The blood vess 10.6 Recording variation and the system of the s

Summer 2

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9.1 Transport systems in dicotyledonous plants
9.2 Water transport in multicellular plants
11.5 Calculating genetic biodiversity
9.5 Plant adaptations to water availability
9.3 Transpiration
11.6 Factors affecting biodiversity
11.7 Reasons for maintaining biodiversity
9.4 Translocation
11.8 Methods for maintaining biodiversity

		14.2 Deculation of black diverse		
		14.3 Regulation of blood glucose concentration		
		14.4 Diabetes and its control	17.1 Energy cycles	
	13.9 Voluntary and involuntary	24.1 Population size		
	muscles	13.2 Neurones	17.2 ATP synthesis	
	13.10 Sliding filament model	13.4 Nervous transmission	22.1 Natural cloning in plants	
13.1 Coordination	20.5 Evolution	24.2 Competition		
19.1 Mutations and variation	15.2 Thermoregulation in	24.3 Predator-prey relationships	22.2 Artificial cloning in plants	
14.1 Hormonal	ectotherms	13.5 Synapses	18.1 Glycolysis	
communication	15.3 Thermoregulation in	13.8 Reflexes		
15.1 The principles of	endotherms	24.4 Conservation and	18.2 The link reaction	
homeostasis	20.6 Species and artificial	preservation	18.3 Krebs cycle	
19.2 Control of gene	selection	24.5 Sustainability		
expression	15.4 Excretion, homeostasis,	16.1 Plant hormones and growth	18.4 Oxidative phosphorylation	
19.3 Body plans	and the liver	in plants		
13.3 Sensory receptors	21.2 DNA sequencing and analysis	16.2 Plant responses to abiotic stress	22.3 Cloning in animals	
13.7 Structure and function of	15.5 The structure and function	24.6 Ecosystem management – Masai mara	18.5 Anaerobic respiration	Review weeks
the brain	of the mammalian kidney		18.6 Respiratory substrates	
20.1 Variation and inheritance	21.3 Using DNA sequencing	24.7 Ecosystem management – Terai region of Nepal	10.0 Respiratory substrates	
20.2 Monogenetic inheritance		24.7 Ecosystem management –	22.4 Microorganisms and biotechnology	
20.2 Wonogenetic inneritance	15.6 The kidney and osmoregulation	Terai region of Nepal		
13.6 Organisation of the	osmoregulation	24.8 Ecosystem management – Peat bogs	22.5 Microorganisms, medicines, and bioremediation	
nervous system	21.1 DNA profiling	-	bioreniediation	
14.5 Coordinated responses	15.7 Urine and diagnosis	24.9 Environmentally sensitive ecosystems	17.3 Photosynthesis	
20.3 Dihybrid inheritance	15.8 Kidney failure	16.4 Tropisms in plants 23.1 Ecosystems	17.4 Factors affecting photosynthesis	
14.6 Controlling heart rate	14.2 Structure and function of	23.2 Biomass transfer through an		
20.4 Phenotypic ratios	the pancreas	ecosystem	22.6 Culturing microorganisms in the laboratory	
	21.4 Genetic engineering	16.3 Plant responses to herbivory 16.5 The commercial use of plant		
	21.5 Gene technology and	hormones	22.7 Culturing microorganisms on an industrial scale	
	ethics	23.3 Recycling within ecosystems		
		23.4 Succession	22.8 Using immobilised enzymes	
		23.5 Measuring distribution & abundance of organisms		
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Study Leave