

SPEC REF	Mr White, Mrs Johnson, Mrs Sutton (2 lessons per week)	SPEC REF	Mr Bradley (2 lessons per week)	SPEC REF	Ms Morris, Mr Faraday (1 lesson per week)
	NO STUDENTS		NO STUDENTS		NO STUDENTS
	NO STUDENTS		NO STUDENTS		
3.1.1 Monomers and Polymers 3.1.2 Carbohydrates	Biological molecules - monomers (glucose, AA, nucleotides) / polymers (carbs, proteins, nucleic acids) condensation/hydrolysis reactions.	3.3.4.1 Mass transport in animals	Mass transport in animals- circulatory system, heart structure, cardiac cycle, blood vessels and tissue fluid.	3.4.5 Species and taxonomy (part 1)	Courtship behaviours, taxonomy, classification, diversity
3.3.3					
3.1.3 Lipids					
3.1.6					
3.1.7		ASSESSMENT BIOLOGICAL MOLECULES	3.3.4.2 Mass transport in plants		
	ASSESSMENT REVIEW BIOLOGICAL MOLECULES				
3.1.4 Proteins	Biological importance of water			ASSESSMENT MASS TRANSPORT IN PLANTS	
3.1.4 Proteins	Protein structure - primary/secondary/tertiary	3.3.4.1 Mass transport in animals	Mass transport in animals 2 (JPB to explain reason for content coverage) Haemoglobin.	3.4.6 Biodiversity within a community	Species diversity and human activities, investigating diversity, genetic diversity.
3.3.3	Required practical 1: investigation into the effect of a named variable on the rate of an enzyme-controlled reaction	3.3.2 Gas exchange	Gas exchange in single celled organisms, insects, humans, plants and fish.		
3.2.1 Cell structure	ASSESSMENT PROTEINS/ENZYMES				
	ASSESSMENT REVIEW PROTEINS				
3.2.1 Cell structure	Protein digestion - endo/exopeptidases dipeptidases	3.2.4 Cell recognition and the Immune system	ASSESSMENT GAS EXCHANGE	3.4 Genetic information, variation and relationships between organisms and 3.1.5 Nucleic acids as information carrying molecules	EOTT
3.2.3 Transport across membranes	Cell structure, microscopes, cell fractionation and ultracentrifugation. Transport across membranes (active transport, osmosis, diffusion, co-transport)		ASSESSMENT GAS EXCHANGE REVIEW		
			Immunity. Defence mechanisms, T-cells, B-cells, antibodies, vaccinations, HIV and AIDS, ELISA tests		
	Required practical 3: Production of a dilution series of a solute to produce a calibration curve which which to identify the water potential of a plant tissue		ASSESSMENT IMMUNITY		Types of selection, speciation and natural selection
			ASSESSMENT IMMUNITY REVIEW		
3.3.3 Digestion & absorption	ASSESSMENT CELLS/CELL TRANSPORT?	3.4.1 DNA, genes and chromosomes		on and relationships between organisms and 3.1.5 as information carrying molecules	Required practical 4: Invetsigation into the effects of a named variable on the permeability of cell-surface membranes.
	Triglyceride digestion - role of bile salts (made by liver) and lipase		Structure of DNA & RNA, DNA replication, Meselson and Stahl, genes and the genetic code, transcription, translation and mutations		
3.1.5 & 3.1.5.2	Mitosis and meiosis				

Statistical tests/mathematical skills				3.4 Genetic information, variation Nucleic acids	Required Practical 2: Mitosis squash root tip
	Y12 MOCK WEEK		Y12 MOCK WEEK		
	BANK HOLIDAY 03/04/26				
Maths skills and stats tests					
	Maths skills. Standard deviation, spearman rank, p values, logarithmic scales, t-tests, chi squared, null hypothesis.	3.4.2 DNA and protein synthesis	Genes and the genetic code, transcription, translation and mutations		Required practical 6: Use of aseptic techniques to investigate the effect of antimicrobial substances on microbial growth
MAY HT		MAY HT		MAY HT	
Start of Y13 content	Maths skills - Mitotic index calculations		Overflow		Mock review
	Y13 content - Energy and ecosystems. Nutrient cycles	Start of Y13 content	Y13 content- succession and muscles		Y13 content- MRR, quadrats and populations
					Y13 St Marys Lighthouse booklet in preparation for trip in September/October