

Subject - KS5 AQA BIOLOGY

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 12	Biological Molecules Monomers and polymers Carbohydrates Lipids Proteins	Biological Molecules Enzymes Nucleic acids Inorganic ions	Organisms exchange substances with their environment • Surface area to volume ratio • Gas exchange • Digestion and absorption	Organisms exchange substances with their environment • Mass transport in animals	Organisms exchange substances with their environment • Mass transport in plants	Internal End-of-Year Examinations
	 Cells Structure of eukaryotic cells Structure of prokaryotic cells and viruses Methods of studying cells Required Practical Investigating an enzyme controlled reaction 	system Required Practical	Genetic information, variation and relationships between organisms DNA, genes and chromosomes DNA and protein synthesis Genetic diversity can arise as a result of mutation or during meiosis Required Practical 4: Investigating the permeability of cell membranes	Genetic information, variation and relationships between organisms • Genetic diversity and adaptation • Species and taxonomy Required Practical 5: Heart Dissection	Genetic information, variation and relationships between organisms Biodiversity within a community Investigating diversity Required Practical 6: Investigating antibiotics on microbial growth	

Year 13	Energy transfers in and between organisms • Photosynthesis • Respiration • Energy and Ecosystems • Nutrient Cycles	Homeostasis Principles of homeostasis and negative feedback Control of blood glucose concentration Control of blood water potential	Genetics, populations, evolution and ecosystems Inheritance Populations Evolution may lead to speciation	Genetics, populations, evolution and ecosystems • Evolution may lead to speciation • Populations in ecosystems	Revision and exam preparation	Official Examinations
	Organisms respond to changes in their internal and external environment Survival and response Receptors Control of heart rate	Nervous coordination Nerve impulses Synaptic transmission Skeletal muscles Required Practical Investigating dehydrogenase activity	 The control of gene expression Mutations Gene expression is controlled by a number of factors Required Practical 10: Studying maggots in 	The control of gene expression Using genome projects Gene technology Required Practical 12: Investigating the effect of an		
7: I chr to	Required Practical 7: Using chromatography to investigate plant pigments	Required Practical 9: Investigating yeast respiration	choice chambers Required Practical 11: Testing urine for glucose	environmental factor on the distribution of a species		
