



SIR GRAHAM BALFOUR SCHOOL

CURRICULUM OVERVIEW – KEY STAGE 5 BIOLOGY



	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 12	Exchange and Transport Size and surface area Gas exchange in humans and organisms Dissecting gas exchange systems Digestion and absorption. Circulatory system Cell Structure Cell structure and division Cell membranes Cells and the immune system		Biological Molecules Enzymes DNA and RNA Water, ATP and inorganic ions. DNA and Diversity DNA, genes and chromosomes Protein synthesis Meiosis and genetic variation Classification of organisms		Photosynthesis Limiting factors and experiments Respiration Aerobic and anaerobic	
Year 13	Stimuli and Homeostasis Neurones Muscles contraction Control of blood glucose The kidneys and blood water potential. Genetics and Populations Variation and selection Ecosystems, succession and conservation		Gene Expression Mutations and gene expressions Genome projects and gene technologies. Mutations and cancer Regulation of transcription and translation Genetic finger printing Gene probes and medical diagnosis Genetic finger printing		Revision	