

Bishop Stopford's School

Curriculum Map Year 13

Biology

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Unit of work	Section 5 Energy transfer in and between organisms Photosynthesis		Section 7 Genetics, populations, evolution and ecosystems Inherited change	istems Section 8 The control of gene expression	Summer 2	Revision and Exams
	Section & Organisms res Re:	pond to changes in their environment sponse to stimuli			kevision	
Core Skills	Com • Deve • C • N • T • D • Synt	Enquiy inquir	Enguiny Communication (Iteracy) Oevelop extended writing Critical thinking Analysis Critical evaluation Make judgements Make arguments Oraw informed decisions Synthesis of information Inforence Numeracy	Enguinx Enguinx Communication (Iteracy) Oneloge extended writing Critical thinking Analysis Critical evaluation Make judgements Make arguments Make arguments Oraw informed decisions Synthesis of Information Inforence Numeracy	Enquiry Communication (Iteracy) Develop extended writing Critical thinking Analysis Critical evaluation Make judgements Make arguments Oraw informed decisions Synthesis of information Inforeme Numeracy	Enquiry Enquiry Communication (Iteracy) Develop extended writing Critical hinking Analysis Critical evaluation Make judgements Make arguments Draw Informed decisions Synthesis of Information Information Information Numeracy
Core Knowledge	Section 5 Energy transfer in and between organisms Potosynthesis • Overview of photosynthesis • The light independent reaction Respiration • Glycolysis • Link reaction and Krebs cycle • Oxidative phosphorylation • Autorobit respiration Section 6 Organisms respond to changes in their environment Section 6 Organisms respondent Section 6 Organisms respondent Section 6 Organisms respondent Section 6 Organisms respondent Section 6 Organisms respondent • Valart growth factors • Valart growth factors • A reflex art • Receptors • Control of heart rate	Section 5 Energy transfer in and between organisms Energy & Ecosystems Productivity Nutrient Cycles Nutrient Nutr	Section 7 Genetics, populations, evolution and ecosystems Inherited change • Studying inheritance • Monohytrid inheritance • Probability and genetic crosses • Dihytrid inheritance • Codominance and multiple alleles • Sustainand • Autosomal Linkage • Autosomal Linkage • Autosomal Linkage • The chi-squard evolution • The chi-squard evolution • The chi-squard evolution • Propulation in phenotype • Natural selection • Statistics of different forms of selection on evolution • Isolation and speciation Populations in ecosystems • Variation in phenotype • Variation in population size • Competition • Prodation in • Investigating populations • Succession • Succession	Section 8 The control of gene expression • Gene expression • Gene mutations • Sem entit and obtpiotency • Regulation of transcription and translation • Egeneratic control of gene expression • Gene expression and cancer • Generation expression and cancer • Generation (Section 1997) Recombinant DNA Technology • Producing DNA Technology • In Virus gene doning – the poymerisation chain reaction • Locating genes, genetic screening and counselling • Genetic fingerprinting		Revision and Exams
Assement & Feedback	Formative HL Tasks set on each topics lesson schedule to include preparing presentations, CPAC assessments and presentations End of topic test at end of each unit of study Summative Assessments in October and March					
Link to prior learning	Mono and Polyiaccharide formation, role of mitochondria and ofhorogilatis, enzyme activity, cell membrane structure and function, transport across membranes	Photosynthesis & respiration, specialised cells, active transport, transport across membranes.	DNA structure, Protein synthesis, selection pressures, directinal and stabilising selection, GCSE knowledge of ecosystems and ecology practicals.	DNA structure, Protein Synthesis, Enzymes - co-factors	Settion 1 Biological Molecules Section 2 Cells Section 3 Organisms exchange substances with their environment Section 4 Genetic Information, variation and relationships between organisms	Section 1 Biological Molecules Section 2 Cells Subtances with their environment Section 4 Genetic Information, variation and relationships between organisms