Year 11 Curriculum Overview [2022-2023] Subject – Biology Separate Science

Autumn Term	Knowledge & Understanding			Literacy Skills Opportunities for	Employability Skills	Assessment Opportunities
Term	Composites	Components [includes understanding of KEY concepts & subject specific vocab]	Formal Retrieval [if any]	developing literacy skills	[if any]	Opportunities
HT1	B6 Plant structures and their functions	 Photosynthesis Factors that affect Photosynthesis Core Practical – Light Intensity and Photosynthesis Absorbing Water and Minerals Transpiration & Translocation. Plant adaptations Plant hormones 	 KS3 Plant growth and Reproduction Photosynthesis review Trends in data 	Evaluation – how to improve results / modify investigations – apply knowledge of CP to elodea practical. Leaf adaptations Transpiration vs translocation Phloem vs Xylem Explain how mineral ions are transported in plants. Explain how sucrose is transported to storage organs.	EcologistBotanist	Assessment Point 1 B6 Feedback Lesson
	B7 Animal Coordination, Control and Homeostasis	 Hormones Hormonal control of metabolic Rate The Menstrual Cycle Hormones and the Menstrual Cycle 	 KS3 Review – Animal Reproduction Food & Nutrition Drugs & Diseases 	Key terminology- names and roles of hormones	 Endocrinologist Midwifery Reproductive assistance clinic IVF procedures Phlebotomy technician 	Review & Feedback on Year 10 Mock Assessment

2	B7 Animal Coordination, Control and Homeostasis	 Control of Blood Glucose, Type 2 Diabetes Thermoregulation Osmoregulation The Kidneys 	 KS3 Review – Animal Reproduction Food & Nutrition Drugs & Diseases 	Extended writing Diabetes type 2	 Endocrinologist Midwifery Reproductive assistance clinic IVF procedures Phlebotomy technician 	
	B8 Exchange and transport in animals	 Efficient transport and Exchange Factors affecting diffusion The circulatory System The heart Cellular Respiration Measuring respiration Rates 	KS3 Review - Breathing & Respiration Drugs and Diseases	 Oral explanations Describing route of a blood cell Comparing adaptations of blood vessels 	Biomedical Scientist Heart surgeon Cheese or wine / beer production Astronaut Stronaut	Assessment Point 2 Mock Examination Biology Paper 1 Feedback lesson

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Spring Term	Knowledge & Understanding			Literacy Skills Opportunities for	Employability Skills	Assessment Opportunities
	Composites	Components [includes understanding of KEY concepts & subject specific vocab]	Formal Retrieval [if any]	developing literacy skills	[if any]	Opportunities
НТЗ	B8 Exchange and transport in animals	 Efficient transport and Exchange Factors affecting diffusion The circulatory System The heart Cellular Respiration Core practical- measuring respiration Rates 	 KS3 Review - Breathing & Respiration Drugs and Diseases 	 Oral explanations Describing route of a blood cell Comparing adaptations of blood vessels 	 Biomedical Scientist Heart surgeon Cheese or wine / beer production Astronaut 	
	B9 Ecosystems and material cycles	 Ecosystems Energy transfer Abiotic Factors and Communities Core Practical – Quadrats and Transects, Biotic Factors and Communities 	 KS3 Review = Ecosystems, Plant Growth Animal Exchange and Transport 	Key terminology focus for material cycles and Belt transects	 Careers involving pollution control Conservationist Organic Farmers 	Assessment point 3 Class Assessment Paper 2 Content

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Year 11 Curriculum Overview [2022-2023] Subject – Biology Separate Science

Summer Term	Knowledge & Understanding			Literacy Skills Opportunities for	Employability Skills	Assessment Opportunities
Term	Composites	Components [includes understanding of KEY concepts & subject specific vocab]	Formal Retrieval [if any]	developing literacy skills	[if any]	
НТ5	GCSE Preparation	Biology			• N/A	GCSE Examinations
					• N/A	