

Curriculum Sequencing Grid: **Triple Biology Single Award**

Year 10	Term 1	Term 2	Term 3
Unit (Tablet in 39-week plan)	<ul style="list-style-type: none"> • B4.3 – Infection • B4.4 – Bioenergetics 	<ul style="list-style-type: none"> • B4.5 – Homeostasis 	<ul style="list-style-type: none"> • B4.7 – Ecology
Key Retainable Knowledge (Required for Y11/13) <ul style="list-style-type: none"> • What... How.... Why.... 	<ul style="list-style-type: none"> • White bloods cells, antibodies, and vaccines • Pathogens • Photosynthesis • Respiration 	<ul style="list-style-type: none"> • Nervous system • Reflex actions • Fertility 	<ul style="list-style-type: none"> • Abiotic • Biotic • Communities • Adaptations • Organisation levels
Key Technical Vocabulary (To be modelled and deliberately practiced in context.)	<ul style="list-style-type: none"> • Pathogen, antibody, vaccine, photosynthesis, respiration 	<ul style="list-style-type: none"> • Homeostasis, control, diabetes, hormones, fertility, dialysis 	<ul style="list-style-type: none"> • Quadrat, Transect, Variation, Population, Ecosystem, Interdependence
Opportunities for Reading	<ul style="list-style-type: none"> • Development of Covid-19 vaccine 	<ul style="list-style-type: none"> • Hormones involved in growth • Leah Betts news story 	<ul style="list-style-type: none"> • Conservation of snow leopard, Successful breeding of Giant Pandas in Edinburgh Zoo
Developing Cultural Capital (exposure to very best- essential knowledge and skills of	<ul style="list-style-type: none"> • Development of Covid-19 vaccine 	<ul style="list-style-type: none"> • Job Links = pharmacist, doctor, nurse, family & sexual health clinic worker, care worker 	<ul style="list-style-type: none"> • Job Links = ecologist, conservationist, environmental engineering,

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educated citizens – appreciation of human creativity and achievement.)			
Cross Curricular Links (Authentic Connections)	<ul style="list-style-type: none"> • Health and social care – vaccines and social care 	<ul style="list-style-type: none"> • Maths – formula: application of formula and units, rearranging formula • Maths – line graphs: drawing and interpreting 	<ul style="list-style-type: none"> • Maths – formula: application of formula and units, rearranging formula • Maths – line graphs: drawing and interpreting
Key Assessment	<ul style="list-style-type: none"> • End of Unit Tests 	<ul style="list-style-type: none"> • End of Unit Tests 	<ul style="list-style-type: none"> • End of Unit Tests • End of Year exam
How Science Work Skills in Science	<ul style="list-style-type: none"> • These skills will continuously throughout the year, some, or all of which will be covered within each topic <ul style="list-style-type: none"> ○ Variables ○ Equipment ○ Risk assessments ○ Writing a method ○ Presenting data (bar charts and line graphs) ○ Interpreting data ○ Types of error (measuring, systematic, random) ○ Equations, calculations, and units ○ Evaluating ○ Models 		

Year 11	Term 1	Term 2	Term 3
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Unit (Tablet in 39-week plan)	<ul style="list-style-type: none"> B4.6 – Genetics 	<ul style="list-style-type: none"> Revision 	<ul style="list-style-type: none"> Revision
Key Retainable Knowledge (Required for Y11/13) <ul style="list-style-type: none"> What... How.... Why.... 	<ul style="list-style-type: none"> Sexual and asexual reproduction Variation Evolution 	EVERYTHING!	<ul style="list-style-type: none"> EVERYTHING!
Key Technical Vocabulary (To be modelled and deliberately practiced in context.)	<ul style="list-style-type: none"> Sexual, Asexual, Reproduction, Fertilisation, Mitosis, Clone, Variation, Meiosis, Mitosis, Gamete, Fertilisation, Clone, Chromosome, DNA, Genome 	<ul style="list-style-type: none"> 	
Opportunities for Reading	<ul style="list-style-type: none"> Theories of evolution 	<ul style="list-style-type: none"> 	
Developing Cultural Capital (exposure to very best- essential knowledge and skills of educated citizens – appreciation of human creativity and achievement.)	<ul style="list-style-type: none"> Debating ethics of genetic engineering and cloning 	<ul style="list-style-type: none"> 	
Cross Curricular Links (Authentic Connections)	<ul style="list-style-type: none"> English: Extended writing and comprehension tasks. 	<ul style="list-style-type: none"> 	

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	<ul style="list-style-type: none"> History: History of classification and DNA discovery. Links to history of medicine. 		
Key Assessment	<ul style="list-style-type: none"> End of Unit Tests Paper 1 Y11 Mocks 	<ul style="list-style-type: none"> Paper 2 Y11 Mocks 	<ul style="list-style-type: none"> Real Exams!!!
How Science Work Skills in Science	<ul style="list-style-type: none"> These skills will continuously throughout the year, some, or all of which will be covered within each topic <ul style="list-style-type: none"> Variables Equipment Risk assessments Writing a method Presenting data (bar charts and line graphs) Interpreting data Types of error (measuring, systematic, random) Equations, calculations, and units Evaluating Models 		