

HIGHFIELDS SCHOOL

OVERVIEW - SCHEME OF WORK 2021-2022



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SUBJECT: GCSE BIOLOGY

EXAMINATION BOARD: OCR

AUTUMN TERM - YEAR 9	SPRING TERM - YEAR 9	SUMMER TERM - YEAR 9
Classes will take a differentiated route through the Year 9 curriculum with work targeted at Foundation and Higher level.		
<p>B1: Cell level systems B1.1 - Cell structures B1.2 - What happens in cells (and what do cells need)? B1.3 - Respiration B1.4 - Photosynthesis</p>	<p>B1: Cell level systems Revision B2: Scaling up B2.1 - Supplying the cell</p>	<p>B2: Scaling up B2.2 - The challenges of size B3: Organism level systems B3.1 - Coordination and control – the nervous system</p>
<p>Potential Practical Activities</p> <ul style="list-style-type: none"> • Microscopy • Enzyme Investigations • Fermentation Investigation • Aerobic Exercise Investigation • Photosynthesis Investigations 	<p>Potential Practical Activities</p> <ul style="list-style-type: none"> • Photosynthesis Investigations • Osmosis Investigations • Specialised cells and mitosis microscopy 	<p>Potential Practical Activities</p> <ul style="list-style-type: none"> • Demonstration of heart structure • Investigating of reaction times by ruler drop
<p>ASSESSMENT</p> <ul style="list-style-type: none"> • B1 Introductory Teacher Assessment, homework and classwork. • B1 Mid Topic Exam. 	<p>ASSESSMENT</p> <ul style="list-style-type: none"> • Year 9 Examination, homework and classwork. • B2 Mid Unit Exam. • B1 Photosynthesis 4Rs Induction Task. • B2 Osmosis 4Rs Task. 	<p>ASSESSMENT</p> <ul style="list-style-type: none"> • B2 End of Topic Examination, homework and classwork. • B2 Heart and Circulation 4Rs Task. • B3 Brain Single Higher 4Rs Task. • B3 Nervous System Combined Foundation 4Rs Task.

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AUTUMN TERM - YEAR 10	SPRING TERM - YEAR 10	SUMMER TERM - YEAR 10
<p>B3: Organism level systems B3.2 - Coordination and control – the endocrine system B3.3 - Maintaining internal environments</p> <p>B4: Community level systems B4.1 - Ecosystems</p>	<p>B4: Community level systems B4.1 - Ecosystems</p>	<p>B5: Genes, inheritance and selection B5.1 - Inheritance B5.2 - Natural selection and evolution B6.1 - Monitoring and maintaining the environment B6.2 - Feeding the human race</p>
<p>Potential Practical Activities</p> <ul style="list-style-type: none"> Investigation into heat loss from plasticine shapes Investigating leaf size and light intensity 	<p>Potential Practical Activities</p> <ul style="list-style-type: none"> Investigating the rate of decay 	<p>Potential Practical Activities</p> <ul style="list-style-type: none"> Investigating variation Model of Meiosis Investigation of ecological sampling methods
<p>ASSESSMENT</p> <ul style="list-style-type: none"> B3 Mid Unit Examination, homework and classwork. B1 to B3 Examination, homework and classwork. B3 Adrenaline 4Rs Task. 	<p>ASSESSMENT</p> <ul style="list-style-type: none"> B4 Mid Module Examination, homework and classwork. B4 End of Module Examination homework and classwork. 	<p>ASSESSMENT</p> <ul style="list-style-type: none"> B1 to B3 School Examination, homework and classwork. B5 Cell Division, Reproduction and Variation 4Rs Task. B5 Evolution 4Rs Task.

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AUTUMN TERM - YEAR 11	SPRING TERM - YEAR 11	SUMMER TERM - YEAR 11
B6: Global challenges B6.2 - Feeding the human race B6.3 - Monitoring and maintaining health	B6: Global challenges B6.3 - Monitoring and maintaining health	Revision and intervention - Topics B1 to B6
Potential Practical Activities <ul style="list-style-type: none">Investigation into growth bacterial cultures using aseptic techniques	Potential Practical Activities <ul style="list-style-type: none">Investigating the effect of antibiotics on the growth of bacteria	
ASSESSMENT <ul style="list-style-type: none">B6 Mid Unit Examination.B4 and B5 Examination.Y11 Pre Mock Examination.	ASSESSMENT <ul style="list-style-type: none">B6 End of Topic Examination.Y11 Mock Examinations.Immunity 4Rs.	ASSESSMENT Final GCSE Examinations <ul style="list-style-type: none">B1 to B3 and B7 (Single Biology, Combined Higher Biology and Combined Foundation Biology).B4 to B6 and B7 (Single Biology, Combined Higher Biology and Combined Foundation Biology).