

Biology Long Term Programme of Study Year 11 2021-2022

Temperance Term

W/C	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	HALF TERM
Area of Study	Revision of Paper 1 Topics		Y11 Baseline Testing	B7- Ecology				
Core Learning				B7 Describe how humans can affect biodiversity and consider the actions that improve sustainability. -Describe different levels of organisation in an ecosystem and the importance of interdependence -MS Extract and interpret data from graphs and tables -Explain how abiotic and biotic factors can affect a community. -Explain how organisms are adapted to survive. -Draw and interpret food chains. -MS Understand the terms mean, mode and median -RP Measure the population size of a common species in a habitat and investigate the effect of a factor on the distribution of the species. -WS 1.2 Interpret and explain the processes in diagrams of the carbon cycle and the water cycle.				
Opportunities for Challenge				B7 - Explain how organisms are adapted to live in their natural environment, given appropriate information.				
Assessment				End of Topic Tests				

W/C	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13	CHRISTMAS
Area of Study	B7- Ecology			Revision of Paper 2 Topics	Mock Exams		
Core Learning	Describe how humans can affect biodiversity and consider the actions that improve sustainability. -Explain the effects of temperature, water and oxygen on the rate of decay -RP Investigate the effect of temperature on the rate of decay of fresh milk. -WS Explain how waste, deforestation and global warming have an impact on biodiversity.						



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	<p>-Describe the differences between the trophic levels of organisms within an ecosystem and construct pyramids of numbers and biomass</p> <p>-WS 1.4 Interpret population and food statistics to evaluate food security.</p> <p>-WS 1.4 Evaluate the advantages and disadvantages of modern farming techniques.</p>			
Opportunities for Challenge	B7 - Explain how organisms are adapted to live in their natural environment, given appropriate information.			
Assessment	End of Topic Tests			

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Justice Term

W/C	Week 14	Week 15	Week 16	Week 17	Week 18	Week 19	HALF TERM
Area of Study	B5- Homeostasis and response	B6- Inheritance, variation and evolution	B3- Infection and response	B4- Bioenergetics	Science Application – Focus on exam questions and Science skills		
Core Learning	Describe the structure and function of the nervous system and the hormonal system. Revision	Compare asexual and sexual reproduction, with relation to number of chromosomes and explain how favoured characteristics can be selectively bred. Revision	Students should be able to explain how diseases caused by viruses, bacteria, protists and fungi are spread in animals and plants. Revision	B4 - Describe and explain the processes of respiration and photosynthesis Revision			
Opportunities for Challenge	Grade 7, 8, 9 challenge questions	Grade 7, 8, 9 challenge questions	Grade 7, 8, 9 challenge questions	Grade 7, 8, 9 challenge questions			
Assessment	Self assessment and in-class tests	Self assessment and in-class tests	Self assessment and in-class tests	Self assessment and in-class tests			

W/C	Week 20	Week 21	Week 22	Week 23	Week 24	Week 25	EASTER
Area of Study	B1 – Cell Biology		B2- Organisation		B7- Ecology		
Core Learning	Students should be able to, explain how the structure of different types of cell relate to their function in a tissue, an organ or organ system, or the whole organism. Revision		Students should know the structure and functioning of the human digestive system and the respiratory system. Students should be able to describe the relationship between health and disease and the		Describe how humans can affect biodiversity and consider the actions that improve sustainability. Revision		



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		interactions between different types of disease. Revision		
Opportunities for Challenge	Grade 7, 8, 9 challenge questions	Grade 7, 8, 9 challenge questions	Grade 7, 8, 9 challenge questions	
Assessment	Self assessment and in-class tests	Self assessment and in-class tests	Self assessment and in-class tests	

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Courage Term

W/C	Week 26	Week 27	Week 28	Week 29	Week 30	Week 31	HALF TERM
Area of Study	B5- Homeostasis and response	B6- Inheritance, variation and evolution	B3- Infection and response	B4- Bioenergetics	Science Application – Focus on exam questions and Science skills		
Core Learning	Describe the structure and function of the nervous system and the hormonal system. Revision	Compare asexual and sexual reproduction, with relation to number of chromosomes and explain how favoured characteristics can be selectively bred. Revision	Students should be able to explain how diseases caused by viruses, bacteria, protists and fungi are spread in animals and plants. Revision	B4 - Describe and explain the processes of respiration and photosynthesis Revision			
Opportunities for Challenge	Grade 7, 8, 9 challenge questions	Grade 7, 8, 9 challenge questions	Grade 7, 8, 9 challenge questions	Grade 7, 8, 9 challenge questions	GCSE Exams		
Assessment	Self assessment and in-class tests	Self assessment and in-class tests	Self assessment and in-class tests	Self assessment and in-class tests			

W/C	Week 32	Week 33	Week 34	Week 35	Week 36	Week 37	SUMMER
Area of Study							
Core Learning							
Opportunities for Challenge							
Assessment	GCSE Exams						