

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	HALF TERM
Topic	B6 Inheritance, Variation and Evolution					B7 Ecology			
Challenge Objective and Content (for all learners)	B6 Compare asexual and sexual reproduction, with relation to number of chromosomes and explain how favoured characteristics can be selectively bred. -Understand the differences between mitosis and meiosis. -WS 1.2 Model behaviour of chromosomes during meiosis. -Describe the structure of DNA. -Describe the importance of the human genome. -Draw genetic diagrams to show the possible genotype and phenotype of offspring. -MS 1c, 3a use direct proportion and simple ratios to express outcomes of genetic crosses.					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.			
Inspire Opportunities	B6 - Consider and debate the ethical considerations of cloning.					B7 - Explain how organisms are adapted to live in their natural environment, given appropriate information.			
Assessment Opportunities	End of Topic Tests								

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
Topic	B7 Ecology		Biology Paper 1 Revision		Year 11 Mock Exams	
Challenge Objective and Content (for all learners)	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.		Biology Paper 1 Revision B1 Cell Biology B2 Organisation B3 Infection and Response B4 Bioenergetics			
Inspire Opportunities	B7 - Explain how organisms are adapted to live in their natural environment, given appropriate information.		Grade 7-9 questions.			
Assessment Opportunities	End of Topic Tests and Year 11 Mock Exams					

CHRISTMAS

Spring Term

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	HALF TERM
Topic	B7 Ecology			Biology Paper 2 Revision		Year 11 Mock Exams	
Challenge Objective and Content (for all learners)	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.			B5 Homeostasis B6 Inheritance, Variation and Evolution B7 Ecology			
Inspire Opportunities	B7 - Explain how organisms are adapted to live in their natural environment, given appropriate information.			Grade 7-9 questions.			
Assessment Opportunities	End of Topic Tests and Year 11 Mock Exams						

	Week 1	Week 2	Week 3	Week 4	Week 5	EAST
Topic	B1 Cell Biology Revision		B2 Organisation Revision		B3 Infection and Response Revision	

Challenge Objective and Content (for all learners)	B1 -Students should be able to explain how the structure of different types of cells relate to their function in a tissue, an organ or organ system, or the whole organism. -Describe the structure of eukaryotic and prokaryotic cells, including the structure and function of specialised cells.	B2 - 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 interactions between different types of disease. -Describe and explain the role of the digestive system. -Describe and explain the structure and function of the heart and lungs. -Describe the relationship between health and disease. -Describe the effect of lifestyle on some non-communicable diseases. -Explain how the structures of plant tissues are related to their functions.	B3 - Students should be able to explain how diseases caused by viruses, bacteria, protists and fungi are spread in animals and plants. -Explain how diseases caused by pathogens are spread in animals and plants. -Describe diseases caused by viruses, bacteria, fungi and protists. -Describe the defence systems of the human body and explain the role of the immune system. -Describe the development of new medicines.
Inspire Opportunities	Grade 7-9 questions.		
Assessment Opportunities	Exam Questions		

Summer Term

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
Topic	B3 Infection and Response Revision	B4 Bioenergetics Revision		Science Skills	GCSE Exams	
Challenge Objective and Content (for all learners)	B3 - Students should be able to explain how diseases caused by viruses, bacteria, protists and fungi are spread in animals and plants. -Explain how diseases caused by pathogens are spread in animals and plants. -Describe diseases caused by viruses, bacteria, fungi and protists. -Describe the defence systems of the human body and explain the role of the immune system. -Describe the development of new medicines.	B4 - Describe and explain the processes of respiration and photosynthesis -State the word and symbol equations for photosynthesis. -Describe the uses of glucose from photosynthesis. -Explain the processes of aerobic and anaerobic respiration, stating the equations. -Explain how the body responds to exercise.		- Graphs - Variables - Evaluations - Calculations - Uncertainty		
Inspire Opportunities	Grade 7-9 questions.					
Assessment Opportunities	GCSE Exams					

HALF TERM

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	SUMMER
Topic	GCSE Exams and Study Leave						
Challenge Objective and Content (for all learners)							
Inspire Opportunities							
Assessment Opportunities	GCSE Exams						