

Autumn Term

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	HALF TERM
Topic	B3 Infection and Response						B5 – Homeostasis and Response		
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. -WS 1.4 Evaluate the global use of vaccination in the prevention of disease. -Describe the development of new medicines. -WS 1.6 Understand the role of peer review before publishing results of trials.						B5 – Describe the structure and function of the nervous system and the hormonal system. -Define ‘homeostasis’ -Explain the role of homeostasis in the control of blood glucose, body temperature and water levels. -Describe the structure and function of the nervous system -MS Extract and interpret data from graphs -RP 7 Investigate the effect of a factor on human reaction time. -Explain how the human endocrine system is controlled. -WS 1.3 Evaluate information around the relationship between obesity and diabetes. -Describe the role of hormones in human reproduction, including the menstrual cycle. -WS 1.3 Discuss why the issues regarding contraception cannot be answered by science alone		
Inspire Opportunities	B3 - Justify how the immune system fights against disease successfully.						Explain the role of the reflex arc in reflex actions.		
Assessment Opportunities	End of Topic Tests								

HALF TERM

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
Topic	B5 – Homeostasis and Response					
Challenge Objective and Content (for all learners)	B5 – Describe the structure and function of the nervous system and the hormonal system. -Define 'homeostasis' -Explain the role of homeostasis in the control of blood glucose, body temperature and water levels. -Describe the structure and function of the nervous system -MS Extract and interpret data from graphs -RP 7 Investigate the effect of a factor on human reaction time. -Explain how the human endocrine system is controlled. -WS 1.3 Evaluate information around the relationship between obesity and diabetes. -Describe the role of hormones in human reproduction, including the menstrual cycle. -WS 1.3 Discuss why the issues regarding contraception cannot be answered by science alone					
Inspire Opportunities	Explain the role of the reflex arc in reflex actions.					
Assessment Opportunities	End of Topic Tests and Autumn Term Assessment					

CHRISTMAS

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
Topic	B5 Homeostasis and Response		B6 Inheritance, Variation and Evolution			
Challenge Objective and Content (for all learners)	B5 – Describe the structure and function of the nervous system and the hormonal system. -Define 'homeostasis'. -Explain the role of homeostasis in the control of blood glucose, body temperature and water levels. -Describe the structure and function of the nervous system. -MS Extract and interpret data from graphs. -RP 7 Investigate the effect of a factor on human reaction time. -Explain how the human endocrine system is controlled. -WS 1.3 Evaluate information around the relationship between obesity and diabetes. -Describe the role of hormones in human reproduction, including the menstrual cycle.		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			
Inspire Opportunities	B5 - Explain the role of the reflex arc in reflex actions.		B6 Consider and debate the ethical considerations of cloning.			
Assessment Opportunities	End of Topic Tests					

HALF TERM

	Week 1	Week 2	Week 3	Week 4	Week 5	EASTER
Topic	B6 Inheritance, Variation and Evolution					
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					
Inspire Opportunities	B6 Consider and debate the ethical considerations of cloning.					
Assessment Opportunities	End of Topic Tests and Spring Term Assessment					

Summer Term

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	HALF TERM
Topic	B6 Inheritance, Variation and Evolution		Revision		Year 10 Mock Exams		
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		Biology Paper 1 Revision B1 Cell Biology B2 Organisation B3 Infection and Response B4 Bioenergetics				
Inspire Opportunities	B6 Consider and debate the ethical considerations of cloning.		Grade 7-9 questions.				
Assessment Opportunities	End of Topic Tests and Year 10 Mock Exams						

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	SUMMER
Topic	B6 Inheritance, Variation and Evolution						
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.						
Inspire Opportunities	B6 Consider and debate the ethical considerations of cloning.						
Assessment Opportunities	End of Topic Tests						