

Temperance Term

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	HALF TERM
Topic	B7 Ecology and P6 Waves						C9 Chemistry of the Atmosphere and Paper 1 Revision		
Challenge Objective and Content (for all learners)	<p>B7 Describe how humans can affect biodiversity and consider the actions that improve sustainability.</p> <ul style="list-style-type: none"> -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. <p>P6 Show how changes in velocity, frequency and wavelength, in transmission of sound waves from one medium to another, are inter-related</p> <ul style="list-style-type: none"> -Provide examples of transfers of energy by electromagnetic waves - Explain the uses and dangers of electromagnetic waves. 						<p>C9-Describe and explain the factors which can affect the chemistry of the Earth's atmosphere</p> <ul style="list-style-type: none"> -Describe the Earth's early atmosphere -Describe the main changes in the atmosphere over time and the likely cause of these changes -Describe the greenhouse effect 		
Inspire Opportunities	<p>B7 - Explain how organisms are adapted to live in their natural environment, given appropriate information.</p> <p>P6 -Explain that a perfect black body is an object that absorbs all of the radiation that hits it. No radiation is reflected or transmitted.</p>						<p>Evaluate the quality of evidence in a report about global climate change</p>		
Assessment Opportunities	End of Topic Tests						End of Topic Tests		

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	CHRI
Topic	C10 Using Resources and Revision				Mock Exams (Paper 1)		

Combined Science Learning Journey Year 11

Challenge Objective and Content (for all learners)	C10-Explain ways to use the Earth's natural resources to manufacture useful products -Distinguish between finite and renewable resources. -Describe the difference in the treatment of ground water and salty water -Carry out a life cycle assessment		
Inspire Opportunities	Evaluate alternative methods of metal extraction		
Assessment Opportunities	End of Topic Tests		

Justice Term

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	HALF TERM
Topic	Biology Paper 2 Revision		Chemistry Paper 2 Revision		Physics Paper 2 Revision		
Challenge Objective and Content (for all learners)	B5 – Homeostasis B6 – Inheritance, Variation and Evolution B7 - Ecology		C6 – The Rate and Extent of Chemical Change C7 – Organic Chemistry C8 – Chemical Analysis C9 – Chemistry of the Atmosphere C10 – Using Resources		P5 – Forces P6 – Waves P7 – Magnetism and Electromagnetism		
Inspire Opportunities	Grade 7-9 questions.		Grade 7-9 questions.		Grade 7-9 questions.		
Assessment Opportunities	Exam questions.		Exam questions.		Exam questions.		

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	EASTER
Topic	Mock Exams (Paper 2)	Physics Paper 1 Revision		Chemistry Paper 1 Revision		Physics Paper 1 Revision	
Challenge Objective and Content (for all learners)		P1 - Energy transfers & multistep calculations. P1 - Energy resources (link to national grid P2). P2 - Series & parallel P2 - VIR relationship P2 - IV RPs P2 - Mains safety		C1 - Atomic models & isotopes C1 - Periodic table development C2 – Ionic bonding C2 - Covalent and metallic bonding		P3 - Changes of state & SLH P3 - Specific heat capacity RP P3 - Density RP	
Inspire Opportunities		Grade 7-9 questions.		Grade 7-9 questions.			
Assessment Opportunities		Exam questions.		Exam questions.			

Courage Term

	Week 1	Week 2	Week 3	Week 4	Week 5	HALF TERM
Topic	Physics Paper 1 Revision	Biology Paper 1 Revision		Chemistry Paper 1 Revision and Physics Paper 1 Revision		
Challenge Objective and Content (for all learners)	P4 - Radioactive decay & half life. P4 - Contamination, irradiation & risk.	B1 - Microscopy RP B1 - Cell division (link to meiosis B6) B1 - Osmosis RP B2 - Food tests RP B2 - Digestion & enzymes RP B4 - Photosynthesis & RP		C4 - Neutralisation & salts C4 - Making salts RP C4 – Electrolysis C5 - Temperature change RP C5 - Reaction profiles & bond energies Effective use of the equation sheet.		
Inspire Opportunities	Grade 7-9 questions.			Grade 7-9 questions.		
Assessment Opportunities	Exam questions.			Biology Paper 1 - 13 th May Chemistry Paper 1 - 19 th May Physics Paper 1 - 22 nd May		

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	SUMMER
Topic	Study Leave						
Challenge Objective and Content (for all learners)							
Inspire Opportunities							
Assessment Opportunities	Biology Paper 2 – 9 th June Chemistry Paper 2 – 13 th June Physics Paper 2 – 16 th June						