

Chemistry Long Term Programme of Study Year 11

Temperance Term

W/C	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	HALF TERM
Area of Study	C9 Chemistry of the Atmosphere			C10 Using Resources			C1- Atomic Structure and the Periodic Table	
Core Learning	C9-Describe and explain the factors which can affect the chemistry of the Earth's atmosphere -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			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			C1 – Describe the development and structure of the atom and periodic table. Revision	
Opportunities for Challenge	Evaluate the quality of evidence in a report about global climate change			Evaluate alternative methods of metal extraction			Grade 7, 8, 9 challenge questions	
Assessment	End of Topic Tests			End of Topic Tests			Self assessment and in-class tests	

W/C	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13	CHRISTMAS
Area of Study	C2- Bonding, Structure and the Properties of Matter	C3- Quantitative Chemistry	C4- Chemical Changes	C5- Energy Changes	Mocks (Paper 1)		

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Core Learning	C2 – Explain how atoms are held together in structures and describe their properties. Revision	C3 – Use chemical equations as a way to communicate chemical ideas. Revision	C4 – Investigate and predict chemical changes in substances Revision	C5-Explain how the interaction of particles often involves transfers of energy. 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		

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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	C6- The Rate and Extent of Chemical Change	C7- Organic Chemistry		C8 – Chemical Analysis	C9 Chemistry of the Atmosphere	C10 - Using Resources	
Core Learning	C6-Understand energy changes that accompany chemical reactions. Revision	C7-Explain the importance of carbon compounds as organic compounds, in terms of structure and properties. Revision		C8-Explain a variety of instrumental methods can be used to analyse substances Revision	C9-Describe and explain the factors which can affect the chemistry of the Earth's atmosphere Revision	C10-Explain ways to use the Earth's natural resources to manufacture useful products 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	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	Self assessment and in-class tests	

W/C	Week 20	Week 21	Week 22	Week 23	Week 24	Week 25	EASTER
Area of Study	Mocks (Paper 2)	C1- Atomic Structure and the Periodic Table	C2- Bonding, Structure and the Properties of Matter		C3- Quantitative Chemistry		
Core Learning		C1 – Describe the development and structure of the atom and periodic table. Revision	C2 – Explain how atoms are held together in structures and describe their properties. Revision		C3 – Use chemical equations as a way to communicate chemical ideas. 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	C4- Chemical Changes		C5- Energy Changes		Y11 on bespoke revision timetable		
Core Learning	C4 – Investigate and predict chemical changes in substances Revision		C5-Explain how the interaction of particles often involves transfers of energy. Revision				
Opportunities for Challenge	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				

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