Long Term Curriculum Plan Chemistry

At Bournemouth School, the science curriculum aims to inspire a future generation of scientists, igniting curiosity and wonder in students and developing their understanding of the world around them. Practical activities are used regularly to support theoretical application of knowledge and to develop research and analytical skills. High quality teaching provides purposeful, stimulating lessons, providing a rich depth of knowledge, enabling students to become critical thinkers and contribute to shaping a better world.

The Chemistry curriculum aim is to develop well rounded chemists who can explain complex theoretical concepts and investigate them practically for themselves. Investigative skills and techniques are embedded at frequent opportunities. Our curriculum aims to challenge all students and facilitates further studies or potential careers in the subject.

"About 300,000 years after their appearance, matter and energy started to coalesce into complex structures, called atoms, which then combined into molecules. The story of atoms, molecules and their interactions is called Chemistry."

Yuval Noah Harari

KS4 roadmap	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
Year 9	C1a Atomic structure and the Periodic Table	C1b Atomic structure and the Periodic Table	C2 Bonding, Structure and Properties	C2 Bonding, Structure and Properties C4a Chemical Changes: Acids	C4a Chemical changes: Acids C4b Chemical Changes: Metals	C4b Chemical Changes: Metals Revision and end of year assessment
Year 10	C8 Chemical Analysis C3 Quantitative Chemistry	C3 Quantitative Chemistry	C5 Energy changes	C6 The Rate and Extent of Chemical Change	Revision for Year 10 exams C6 The Rate and Extent of Chemical Change	C6 The Rate and Extent of Chemical Change C7a Organic Chemistry
Year 11	C7b Organic Chemistry	C9 Chemistry of the Atmosphere	C10 Using resources	Revision for mock exam	Revision for Formal Assessments	

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Sixth form roadmap	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
YEAR 12	Chapter 1 atomic structure Baseline Test Chapter 1 test Chapter 2 Amount of substance	Chapter 2 Amount of substance Progress test chapters 1 and 2 Chapter 4 Energetics Required practical 2	Chapter 4 Energetics Progress test chapters 1,2 and 4 Chapter 6 Equilibria Chapter 19 Equilibrium Constant Kp	Chapter 7 Redox Chapter 8 periodicity Chapter 9 group 2 Revision for mock exam	Mock exam 1 Chapter 10 group 7	Chapter 17 Thermodynamics End of term test
	Induction Required practical 1 Chapter 3 Bonding and structure Chapter 3 test	Chapter 5 Kinetics Required practical 3 Chapter 11 Introduction to Organic Chemistry Progress test chapters 3, 5 and 11	Chapter 12 Alkanes Chapter 13 Haloalkanes	Chapter 14 Alkenes Chapter 15 alcohols Required practical 5	Mock exam 1 Chapter 16 Organic Analysis Required practical 6	Chapter 18 Kinetics Required practical 7a and 7b End of term test
YEAR 13	Chapter 21 acids, bases and buffers Required practical 8 Chapter 21 test	Chapter 22 Periodicity Chapter 20 Electrochemistry Required practical 8 Revision for mock exam	Mock exam 1 Chapter 23 Transition metals	Chapter 24 Reactions of inorganic compounds Required practical 11 Mock exam 2	Revision for formal assessments	
	Chapter 25 Nomenclature and isomerism Chapter 26 Compounds containing the carbonyl group Required practical 10	Chapter 32 Structure determination Chapter 33 Chromatography Revision for mock exam	Mock exam 1 Chapter 27 Aromatic Chemistry Chapter 28 Amines Chapter 29 Polymerisation	Chapter 30 Amino acids, proteins and DNA Mock exam 2 Chapter 31 Organic synthesis and analysis	Revision for formal assessments	