

Curriculum Overview – **Chemistry** Year 12

Year	Term	Units of Work	Assessment
12	1	Atomic Structure Amount of Substance Bonding Introduction to Organic Chemistry Alkanes Halogenoalkanes Alkenes	Formative assessment of each topic Key task 1 – Atomic structure and amount of substance Key task 2 – Alkanes and Halogenoalkanes Key Assessment – All aspects covered in Module 1
	2	Energetics Kinetics Chemical Equilibria Alcohols Organic Analysis	Formative assessment of each topic Key task 1 – Energetics and Kinetics Key task 2 – Alcohols and Organic Analysis Key Assessment – All aspects covered in Module 2 and synoptic questions from previous areas of the course.
	3	Redox Periodicity Group 2 Group 7	Formative assessment of each topic Key task 1 – Redox and periodicity Key task 2 – Group 2 and Group 7 Key Assessment – Y12 Exam to cover all aspects of the Y12 course.

Curriculum Overview – **Chemistry** Year 13

Year	Term	Units of Work	Assessment
13	1	Thermodynamics Rate Equations K _p Electrochemical cells Optical isomerism Aldehydes and ketones Carboxylic acids and derivatives Aromatic chemistry	Formative assessment of each topic Key task 1 – Thermodynamics, rate, and K _p Key task 2 – Optical isomerism, aldehydes and ketones and carboxylic acids Key Assessment – Mock exams to cover all aspects of the course to this point.
	2	Acids and bases Period 3 elements and oxides Transition metals Reactions of ions in aqueous solution NMR Chromatography Amines Polymers Amino Acids, proteins and DNA Organic Synthesis	Formative assessment of each topic Key task 1 – Acids and bases, NMR and Chromatography Key task 2 – Amines Polymers, Amino Acids, Proteins and DNA Key Assessment – Mock exam papers to cover all aspects of the course
	3		