

**KS4**

Chemistry Key Stage 4 Curriculum Overview

	Autumn Term	Spring Term	Summer Term
Year 10	Atomic structure, periodic table	Structure and bonding, chemical changes, electrolysis	Energy changes, rates
Year 11	Calculations, crude oil and fuels, separate only – organic reactions, polymers	Chemical analysis, earth's atmosphere, resources, separate only – using our resources	Revision and finishing of using our resources.

**KS5**

Chemistry Key Stage 5 Curriculum Overview

	Autumn Term	Spring Term	Summer Term
Year 12	Teacher 1: Introduction to organic chemistry; alkanes; bonding; haloalkanes; alkenes; alcohols Teacher 2: Atomic structure; periodicity; calculations	Teacher 1: Shapes of molecules; organic analysis, redox chemistry; group 2 and 7 chemistry Teacher 2: Equilibria; K _c ; Kinetics; Energetics	Teacher 1: Optical isomerism; carbonyl chemistry; carboxylic acids; esters; acyl compounds; aromatic chemistry Teacher 2: Rate equations; K _p ; Acids and bases

Year 13	Teacher 1: Amines; polymers; amino acids Teacher 2: Thermodynamics; electrochemistry	Teacher 1: Chromatography; NMR; organic synthesis Teacher 2: Transition metal chemistry; reactions of ions; properties of P3 and their oxides	Revision and exam question based revision
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