

**KS4**

## Chemistry Key Stage 4 Curriculum Overview

	Autumn Term	Spring Term	Summer Term
<b>Year 10</b>	Atomic structure, periodic table	Structure and bonding, chemical changes, electrolysis	Energy changes, rates
<b>Year 11</b>	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
<b>Year 12</b>	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 <sub>c</sub> ; Kinetics; Energetics	Teacher 1: Optical isomerism; carbonyl chemistry; carboxylic acids; esters; acyl compounds; aromatic chemistry Teacher 2: Rate equations; K <sub>p</sub> ; Acids and bases

<b>Year 13</b>	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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