

## Key Stage 5 Curriculum Overview for Chemistry

Year	Half Term 1	Half Term 2	Half Term 3	Half Term 4	Half Term 5	Half Term 6
<b>12</b>	Teacher A: Atomic structure Teacher B: Bonding and Periodicity	Teacher A: Amount of substance Teacher B: Alkanes and isomers	Teacher A: Kinetics and Redox Teacher B: Haloalkanes and Alkenes	Teacher A: Group 2 and Group 7 Teacher B: Alcohols	Teacher A: Equilibria Teacher B: Nomenclature and isomerism	Teacher A - Kp Teacher B: Aromatics
	<b>Assessments</b> <ul style="list-style-type: none"> <li>End of chapter assessed homework</li> <li>End of chapter tests comprising of short answer and multiple choice AQA past paper questions</li> <li>Assessed practical assignments: Make up a volumetric solution and carry out a simple acid-base titration, Distillation of a product from a reaction, Carry out simple test-tube reactions to identify cations and anions, Measuring the rate of reaction by an initial rate method, Measuring the rate of reaction by a continuous monitoring method</li> </ul>				<b>Assessments</b> Mock exam in half term 3 and 6 – 2 papers comprising of short answers and multiple-choice questions	
<b>13</b>	Teacher A: Energetics and Thermodynamics Teacher B: Amines and Carbonyls	Teacher A: Acids and bases Teacher B: Polymerisation and Amino acids, Proteins and DNA	Teacher A: The transition metals and Inorganic compounds in aqueous solution Teacher B: Structure determination and Chromatography	Teacher A: Electrode potentials Teacher B: Organic synthesis and analysis	Teacher A and B: Revision, consolidation and exam technique	
	<b>Assessments</b> <ul style="list-style-type: none"> <li>End of chapter assessed homework containing past paper questions</li> <li>End of chapter tests comprising of short answer and multiple choice AQA past paper questions</li> <li>Assessed practical assignments : Investigation of how the rate of a reaction changes with temperature, Tests for alcohol, aldehyde, alkene and carboxylic acid, , Investigate how pH changes when a weak acid reacts with a strong base, Measuring the EMF of an electrochemical cell, Investigate how pH changes when a weak acid reacts with a strong base, Preparation of a pure organic solid and test of its purity, Preparation of a pure organic liquid, Carry out simple test-tube reactions to identify transition metal ions, Separation of species by thin-layer chromatography</li> </ul>				<b>Assessments</b> Mock exam in half term 2 – 2 papers comprising of short answers and multiple-choice questions, focusing on Year 13 topics with synoptic Year 12 content Mock exam in half term 5 – AQA complete Paper 1, 2 and 3	