

Subject: Chemistry



William Hulme's Grammar School
The best in everyone™
Part of Unacad Learning

Year 12

Overview	<p>Students will study the AS content of the AQA chemistry specification and begin studying the A2 content in the summer term. Students will be taught by two teachers that cover half of the specification each. This simultaneous teaching enables depth and breadth of curriculum coverage. They will build on their GCSE knowledge of atomic structure, bonding, chemical calculations, energy changes, rates, organic chemistry and chemical analysis.</p> <p>They will also build on their practical skills by completing investigative work that compliments the learning of the theory whilst providing opportunity for students to experience the use of more complex apparatus and techniques. A minimum of 12 of these will be assessed over the course. All work, whether theoretical or practical, is designed to prepare students for the next stage of their life, whether that be further academic study or work, and to enable them to become informed citizens that can make positive contributions to society.</p>
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Autumn Term	Teacher A: Atomic Structure, Amount of Substance Teacher B: Bonding, Intro to Organic Chemistry, Alkanes, Halogenoalkanes, Alkenes	Assessment
		<p>½ termly synoptic assessments</p> <p>Digital Platforms: Seneca Homework Carousel Learning</p> <p>Chemistry Required Practical: Prac 1a Make up a volumetric soln, Prac 1b Acid base titration</p>

Spring Term	Teacher A: Energetics, Kinetics Teacher B: Alcohols, Organic Analysis and Periodicity	Assessment
		<p>½ termly synoptic assessments</p> <p>Digital Platforms: Seneca Homework Carousel Learning</p> <p>Chemistry Required Practical: Prac 2 Measure an enthalpy change Prac 5b Prepare ethanal, Prac 4 Test for cations and anions</p>

Summer Term	Teacher A: Redox, Equilibria, Equilibrium constant Kp (A2) Teacher B: Group 2 and Group 7, Aldehydes and Ketones (A2)	Assessment
		<p>½ termly synoptic assessments</p> <p>Digital Platforms: Seneca Homework Carousel Learning</p> <p>Chemistry Required Practical: Prac 3 Rate/temp</p>

Useful Resources for Supporting Your Child at Home:	Homework:
<p>Carousel – revision & study pack flash-cards</p> <p>Seneca – interactive revision</p> <p>Physics and maths tutor – online exam question bank & flashcards</p> <p>Savemyexams – useful exam practice website</p> <p>Chemguide - revision</p>	<p>Seneca, Carousel, targeted worksheets, research projects, flipped learning opportunities.</p>