

Autumn 2	Structure, bonding and properties of materials completed	
Spring 1	Chemical change	<ul style="list-style-type: none"> -Metals with acid/water/oxygen and the Reactivity series -Displacement and reduction -Making soluble salts and crystallisation -Metal carbonates with acid -pH scale -Titration technique -Strong and weak acids -Electrolysis of melts and solutions
Spring 2	Chemical change completed Energy	<ul style="list-style-type: none"> -Exo and endothermic reactions -Combustion and calorimetry -Energy profile diagrams and bond energies -Cells, batteries and fuel cells

Summer 1	<p>Energy completed</p> <p>Prepare for end of Year 10 exams</p> <p>Quantitative chemistry</p>	<ul style="list-style-type: none"> -Equations and conservation of mass -Relative mass, moles, reacting masses and limiting reagents -Concentration and solution calculations -Atom economy -Percentage yield -Gas volumes -Uncertainty
Summer 2	<p>Quantitative chemistry completed</p> <p>Rates of reaction started</p>	<ul style="list-style-type: none"> -Collision theory -Factors affecting rate: surface area, concentration, temperature, catalysts -Reversible reactions and equilibria -Haber process

Year 11 CHEMISTRY (SEPARATE SCIENCE) Curriculum Map

Term	Topic/Unit title	Essential content https://www.aqa.org.uk/subjects/science/gcse/chemistry-8462/specification-at-a-glance
Autumn 1	<p>Rates of reaction started in Summer term of Year 10 is consolidated and completed</p> <p>Organic chemistry</p>	<p>Throughout the GCSE, disciplinary knowledge is interwoven throughout each topic with a particular focus on:</p> <ul style="list-style-type: none"> -working scientifically: plan and conduct investigations objectively, then analyse, evaluate and conclude. -apparatus and technique: select the most appropriate pieces of equipment and use them in the correct way to ensure accurate results are obtained. -mathematical skills: particular focus on recording, processing, graphing and analysis. <p>-Collision theory</p> <p>-Factors affecting rate: surface area, concentration, temperature, catalysts</p> <p>-Reversible reactions and equilibria</p> <p>-Haber process</p> <p>-Alkanes and fractional distillation</p> <p>-Cracking</p>

		<ul style="list-style-type: none"> -Gas tests -Positive and negative ion tests
Spring 2	Using resources	<p>This topic has been incorporated into previous topics where appropriate so material is consolidated and remaining new content delivered.</p> <ul style="list-style-type: none"> -Potable water and distillation -Resources, sustainability and metals -Recycling and LCA's -Corrosion -Ceramic and composite -NPK fertiliser
Summer 1	Revision phase	