

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-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

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

Year 11 CHEMISTRY (COMBINED SCIENCE) Curriculum Map

Term	Topic/Unit title	Essential content https://www.aqa.org.uk/subjects/science/gcse/combined-science-trilogy-8464/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. <ul style="list-style-type: none"> -Collision theory -Factors affecting rate: surface area, concentration, temperature, catalysts -Reversible reactions and equilibria -Alkanes and fractional distillation -Cracking

Autumn 2	Atmosphere	<ul style="list-style-type: none"> -Current and ancient atmosphere -Pollutants -Carbon dioxide, the greenhouse effect and carbon footprints
Spring 1	<p>Atmosphere completed</p> <p>Analysis</p>	<ul style="list-style-type: none"> -Pure and mixture -Chromatography -Gas tests
Spring 2	Using resources	<ul style="list-style-type: none"> -Potable water and distillation -Resources, sustainability and metals -Recycling and LCA's
Summer 1	Revision phase	