



Year 11 Separate Science (Chemistry - AQA)

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Topics	C8 Chemical Analysis Using Chromatography, Testing for Gases, Testing for common Ions	C9 Chemistry of the Atmosphere Evolution of the atmosphere, Climate change and Human impact	C10 Using resources Obtaining drinking water, Alternative methods of extracting metals, Preventing corrosion	Re-teaching of prior content. preparing for examinations	Re-teaching of prior content. preparing for examinations	
Assessment	End of unit assessment	End of unit assessment Paper 1 PPE	End of unit assessment Paper 2 PPE	End of unit assessment Paper 2 PPE	GCSE Exam	GCSE Exam

Building on Prior Learning	Links to Atomic structure, Structure and Bonding, Chemical Changes Builds upon the work done in previous years on scientific enquiry and practical skills. Learning components at the start of lessons remind students of prior learning and point out links to previous topics
Links with other subjects	Maths – introduction of basic mathematical functions and skills necessary for quantitative chemistry and equations. English - reading, writing and communication. MFL support with the development of learning an additional language for scientific literacy. Physics- consolidate knowledge of atomic structure and ions. Biology - consolidate knowledge of gases used in respiration and photosynthesis. Biology and Physics - consolidate working scientific skills and scientific literacy. Geography – evolution of the atmosphere and potable water. Design and Technology/Engineering - materials
Extracurricular opportunities	Period 6 Science enhancement sessions in a small group setting Developing STEM ambassadors visits to engage and inspire students
A successful learner in this subject will demonstrate	Demonstrate critical thinking relating to the topics taught which can be demonstrated through recall and extended written work. Resilience in handling more complex processes and concepts. They will have the ability to identify their emerging learning needs. Secure prior knowledge and links to new information. Greater scientific literacy.
Impact on personal development	Science will help students to become logical thinkers and problem solvers with a better understanding of the world around them. Demonstrating resilience and the ability to consider moral and ethical implications of scientific developments.

Ways to support student learning in this subject
<ul style="list-style-type: none"> • Encourage the completion of homework • Encourage discussions of science issues that arise in the news • Discuss science lessons and their progress • Encourage a positive attitude towards science • Periodic Table and personalised learning checklists (PLC)



- Encourage students to use Seneca Learning (<https://www.senecalearning.com/>) to consolidate knowledge and build on recall skills.
- CGP science revision guides and workbooks are available to purchase throughout the year on parent pay.
- Practice units, unit conversions, standard form and rearranging equations and encourage the use of maths skills