

## CHEMISTRY SEPARATE SCIENCE CURRICULUM: KS4

### Intent:

In Science we aim to deliver a *knowledge rich, ambitious, and inclusive* curriculum that ensures all pupils master key concepts in the three Sciences. This *empowers* them to examine *relevant* global issues such as pollution, food sustainability, climate change *etc.* We ensure pupils develop a *coherent* understanding of scientific enquiry and gain the skills needed to draw valid conclusion via practical work. We aim to foster pupil's natural curiosity and develop them into critical thinkers where they can apply their knowledge to the modern world (e.g., understanding electricity bills, choosing a car wisely, the importance of screening).



<b>Qualification(s)</b>	Chemistry GCSE
<b>Exam Board</b>	AQA
<b>Link to Specification</b>	<a href="https://www.aqa.org.uk/subjects/science/gcse/chemistry-8462/specification-at-a-glance">https://www.aqa.org.uk/subjects/science/gcse/chemistry-8462/specification-at-a-glance</a>

Procedural knowledge is developed throughout the curriculum whilst pupil's carry out the required practicals. These practicals are assessed within the external exams so is vital pupils attend these lessons.

A test will follow after each group of chapters. E.g. after C1, C2 and C3. This will include core questions plus an extended writing question. These are highlighted on the document with a \*.

	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
Year 10	C1 – Atomic Structure C2 – The Periodic Table	C3 – Structure and Bonding* C4 – Chemical Calculations	C5 – Chemical Changes*	C6 – Electrolysis	C7 – Energy Changes*	C8 – Rates and Equilibrium <i>Mock exams</i>
Year 11	C9 – Crude Oil and Fuels C10 – Organic Reactions	C11 – Polymers* C12 – Chemical Analysis <i>Mock exams</i>	C13 – The Earth’s Atmosphere C14 – The Earth’s Resources	C15 – Using Our Resources* <i>Mock exams</i>	<i>Revision</i>	<i>External Exams</i>

### Further Support:

Pupils have access to an online textbook and revision materials on Kerboodle:

<https://www.kerboodle.com/users/login>

BBC Bitesize has some excellent resources to support your child’s learning:

<https://www.bbc.co.uk/bitesize/examspecs/z8xtmnb>

### Who to contact regarding KS4 Chemistry:

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