

Year 10 Chemistry

Chemistry GCSE follows the AQA specification and builds on work studied at KS3 whilst also encountering new content that links into A' level such as electrolysis.

There are 10 units (C1-C10) examined in two papers at the end of Y11; paper 1 examines C1-5, paper 2 examines C6-10

There is no coursework but there are "Required Practicals" which students will be asked about in exams - these are integrated into lessons throughout the course along with other practical work and the development of broader scientific skills

At the end of each topic students complete a topic test made up of past exam questions. This is then marked and graded and used to identify strengths and areas in need of attention. Note that many topics overlap and so end-of-topic assessments may contain elements from different units which also acts as retrieval practice.

Each lesson begins with a Brain in Gear retrieval task and a Key Learning Question. There will be teacher input of some kind followed by tasks which use prior learning to develop greater knowledge understanding.

Once understanding is established then students develop their ability to apply this to unfamiliar situations.

Note: C9 is taught at the end of year 9

Year 10 Curriculum	Autumn Term 1	Autumn Term 2	Spring Term 1	Spring Term 2	Summer Term 1	Summer Term 2	
Topic(s)	C1 - Atomic Structure and The Periodic Table Models of the Atom Separation techniques The Periodic Table Group 1 chemistry Group 7 chemistry	C2 - Bonding, Structures and Properties Ionic bonding Covalent bonding Structures and properties of materials Nanoparticles	C4 - Chemical Changes Acids, bases and salts Strong and weak acids Reactivity series Extracting metals	C4 - Chemical Change (cont'd) Electrolysis C5 - Energy Changes in Reactions Exothermic and endothermic reactions Determination of energy changes Bond energies	C5 - Energy Changes in Reactions (cont'd) Cells and batteries Fuel cells C6 - Rate and Extent of Chemical change Rates of reaction Measuring rate Finding rate from graphs	C6 - Rate and Extent of Chemical change (cont'd) Reversible reactions Le Chatelier's Principle Y10 Summer exam (C1, 2, 4, 5, 9) - Revision - Feedback - Support	
Assessment	Tests half way through each topic usually set as homework Formal end of unit test End of Year 10 exam covering C1, C2, C4, C5 and C9						

Independent Work

Regular homework covering a variety of skills:

- GOALs (“Go Off And Learn”) for factual recall
- Application
- Practice exam questions to gain experience of recall, application, unfamiliar contexts and extended response
- Research
- Write ups of experimental work, especially work related to the Required Practicals
- Increasing use of Tassomai as the year progresses