

Year 11 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 organic chemistry.

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 and revised at the end of year 11

Year 11 Curriculum	Autumn Term 1	Autumn Term 2	Spring Term 1	Spring Term 2	Summer Term 1	Summer Term 2
Topic(s)	C3 - Quantitative Chemistry Relative formula mass The Mole Reacting mass calculations Gases and solutions Titrimetric analysis Concentration calculations Yields and atom economy	C7 - Organic Chemistry Hydrocarbons Fractional distillation Cracking Alkanes, alkenes, alcohols and carboxylic acids Addition and condensation polymers Natural polymers	C8 - Chemical Analysis Purity and formulations Chromatography Tests for gases Tests for ions Flame emission spectroscopy	C10 - Using Resources Materials and properties Corrosion Using Earth's resources Potable water Life cycle assessments The Haber Process Fertilisers	Revision and beginning of formal GCSE examinations	

Assessment

Tests half way through each topic usually set as homework
Formal end of unit tests
Mock exams in November (paper 1) and January (paper 2)

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