

Year 13 Chemistry

In Year 13 students will complete the AQA syllabus and also have time for teacher-led revision before the exam. The areas of organic, inorganic and physical chemistry will continue to be studied and by the end of the syllabus students will have a sound knowledge of all these topics which will allow them to continue on to any Chemistry-based degrees or career options with confidence. There are three exams at the end of this year:

Paper 1: Inorganic and physical chemistry.

Paper 2: Organic and physical chemistry.

Paper 3: Synoptic paper.

Methods of deepening and securing knowledge:

Interleaving	Starter tasks are designed to check knowledge from not only the previous lesson, but also lessons earlier in the topic and sometimes even other topics within chemistry which they will have covered previously.
Checkpoints/ mini plenaries	These are used within lessons to check understanding and address any misconceptions before moving on.
Independent study	Exam questions are used to provide plenty of practise at applying their knowledge to new situations.
Assessment for progress	Each of the topics conclude with an end of topic test from which feedback is provided.

	Autumn term 1	Autumn term 2	Spring term 1
Topic(s)	<ul style="list-style-type: none"> Equilibrium constant. Electrode potentials. Aromatic chemistry. Amines. 	<ul style="list-style-type: none"> Acids, bases and buffers. Polymerisation. Amino acids and proteins. 	<ul style="list-style-type: none"> Organic synthesis and analysis. Transition metals. Reactions of inorganic compounds in aqueous solution.
Assessment	End of topic tests.	End of topic tests.	End of topic tests and Year 13 trial exam.

CEIAG <i>(Careers that are linked to that topic)</i>	Organic chemistry, pharmacology.	Biochemistry.	Metallurgy, organic chemistry, pharmacology, biochemistry.
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	Spring term 2	Summer term 1	Summer term 2
Topic(s)	<ul style="list-style-type: none"> • NMR. • Chromatography. 	Revision.	Revision.
Assessment	End of topic tests.	End of topic tests.	External exams.
CEIAG <i>(Careers that are linked to that topic)</i>	Chemical analysis, quality control chemistry.		

Independent Study

Educake is used to set timely and relevant revision questions throughout the topic. There will be around 20 questions set and the difficulty will be tailored to the ability of the group. Students can immediately see their scores for this independent study and also identify which areas are their strongest and weakest within the questions given. Past exam questions may also be used to practise applying knowledge to different contexts.