

Year 11 Chemistry (AQA Combined Science)

With most of the course already complete, this year will see students finishing off the final three units of the course and then beginning thorough revision preparation for their exams.

The units students will study this year have a strong emphasis on the Earth and its resources and how human activities are affecting the environment and the atmosphere. These topics have a clear and strong relevance to everyday life and are of great importance to help students understand the world in which we live and how our actions, as a species, are impacting upon it.

The final two of the six required practicals are carried out this year. Students will then embark on a bespoke schedule of revision tailored to both class and individuals to maximise attainment in the final examinations.

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	Educake questions are used as a means of low-stakes testing to consolidate learning and check understanding.
Assessment for Progress	Each of the topics will have an 'Even Better If' (EBI) assessment where students are provided with bespoke tasks designed to help them reach the next level in their learning.

	Autumn term 1	Autumn term 2	Spring term 1
Topic(s)	<p>Chemical Analysis</p> <ul style="list-style-type: none"> • Pure substances. • Formulations. • Chromatography. • Testing for gases. <p>Required practical: chromatography.</p>	<p>Changes to the Atmosphere</p> <ul style="list-style-type: none"> • The early atmosphere. • The evolution of the atmosphere. • Greenhouse gases and the greenhouse effect. • Climate change. • Polluting gases. 	<p>Using Resources</p> <ul style="list-style-type: none"> • Finite and renewable resources. • Potable water (higher tier only). • Life cycle assessment. • Recycling. <p>Required practical: analysis of water samples.</p>

Assessment	End of unit test followed by EBI tasks.	End of unit test followed by EBI tasks. First pre-public examinations	End of unit test followed by EBI tasks. Second pre-public examinations
CEIAG <i>(Careers that are linked to that topic)</i>	Chemical analyst. Quality control chemist.	Climate change scientist. Environmental scientist.	Water quality scientist. Environmental scientist.

	Spring term 2	Summer term 1	Summer term 2
Topic(s)	Revision	Revision	
Assessment		GCSE Exams (Paper 1: biology, chemistry and physics).	GCSE Exams (Paper 2: biology, chemistry and physics).
CEIAG <i>(Careers that are linked to that topic)</i>			

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 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.