



PLUME ACADEMY - LEARNING OVERVIEW

Year	11
Course	GCSE Chemistry
Specification Number/Exam Board	8462/AQA
End of course assessment and weightings	Two papers: Paper 1 and Paper 2 Written exam: 1hr 45 minutes each Foundation and Higher Tier 100 marks each 50% of GCSE each Paper 1: Topics 1 – 5 1. Atomic structure and the periodic table 2. Bonding, structure, and the properties of matter 3. Quantitative chemistry 4. Chemical changes 5. Energy changes Paper 2 Topics 6 – 10 6. The rate and extent of chemical change 7. Organic chemistry 8. Chemical analysis 9. Chemistry of the atmosphere 10. Using resources

Prior Learning

Pupils will be taught content from the basics through to advanced concepts spiralling back and building on previous taught work in key stage 3. All topics have been introduced at key stage 3 and have been sequenced to build challenge.

Curriculum Intent – What are the curriculum aims?

The GCSE specification in chemistry will enable students to:

- Develop scientific knowledge and conceptual understanding through chemistry
- Develop understanding of the nature, processes and methods of science through different types of scientific enquiries that help them to answer scientific questions about the world around them
- Develop and learn to apply observational, practical, modelling, enquiry and problem-solving skills, both in the laboratory, in the field and in other learning environments
- Develop their ability to evaluate claims based on chemistry through critical analysis of the methodology, evidence and conclusions, both qualitatively and quantitatively.



Curriculum Implementation – What will my child be learning?

Term 1	Half Term 1	Topic 7 part 2: Organic chemistry
	Half Term 2	Topic 5: Energy changes
Term 2	Half Term 3	Topic 6 (second part): the rate and extent of chemical change
	Half Term 4	Topic 10 (second part): Using resources.
Term 3	Half Term 5	Teacher led revision
	Half Term 6	

Curriculum Impact – How will progress be assessed as I learn?

Students will be assessed in a variety of ways:

- Informally, student work is marked regularly; students also receive feedback in lesson via class discussion. Students will also receive feedback through standard homework and regular exercise book assessment and feedback.
- Formal assessment is via Key Knowledge Organiser assessments and mock exams in half term 2 and half term 4

Super-Curricular Opportunities – Support and Extending Learning

Useful study resources	If a student is really passionate about this subject...	As a parent/carer, I can assist my child in this subject by:
<p>Websites</p> <ul style="list-style-type: none"> • www.bbc.co.uk/bitesize • www.senecalearning.com • www.freesciencelessons.co.uk • The BBC GCSE Bitesize website covers all of the important topics that you need to know for your exams. <p>Other sources</p> <ul style="list-style-type: none"> • Chemistry AQA Revision (mp3 download) • Chemistry AQA Revision App • O2 Learn a video-based resource. • GCSE Science has some written notes covering important topics Chemguide written overviews of various topics. 	<p>Students could get involved in raising awareness of issues contributing to pollution and climate change.</p> <p>Students could get involved in a drive to encourage recycling and reuse of metals to reduce</p>	<p>Purchase 9-1 GCSE Chemistry AQA Revision Question Cards</p> <p>https://www.cgpbooks.co.uk/secondary-books/gcse/back-to-school-gcse/caf41-new-9-1-gcse-chemistry-aqa-revision-questi</p> <p>Purchase CGP 9-1 AQA Chemistry Revision Guide</p> <p>Facilitating your child in accessing the resources mentioned. Speak to them about the resources or about the news and ask questions. Encourage your child to ask their own questions; then go and research the answers.</p>



<ul style="list-style-type: none">• The CGP books website for quizzes and games.• Creative Chemistry for testing yourself on what you have learned.• Chemistry Rules• Webelements is an interactive Periodic Table• Periodic Videos	<p>pressure on reserves of metal ores.</p> <p>Attend Essex University Open Days</p> <p>Attend Anglia Ruskin University Open Days</p> <p>Visit Broomfield General Hospital</p> <p>Open Days (Medicine)</p> <p>The Science Museum, London</p> <p>Lectures</p>	
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