



PLUME ACADEMY - LEARNING OVERVIEW

Year	13
Course	OCR Chemistry A
Specification Number/Exam Board	H432 - OCR
Examination Papers and Weighting	Periodic table, elements and physical chemistry (37%) Synthesis and analytical techniques (37%) Unified Chemistry (26%)

Prior Learning

The course builds on prior learning by a content-led approach. A flexible approach where the specification is divided into topics, each covering different key concepts of chemistry. As learners progress through the course, they will build on their knowledge of chemistry from GCSE and AS Level, applying their understanding to solve problems on topics ranging from foundations in chemistry to organic chemistry. For A level only, the Practical Endorsement will also support the development of practical skills.

Curriculum Intent – What are the curriculum aims?

- Develop essential knowledge and understanding of different areas of the subject and how they relate to each other.
- Develop and demonstrate a deep appreciation of the skills, knowledge and understanding of scientific methods.
- Develop competence and confidence in a variety of practical, mathematical and problem-solving skills.
- Develop their interest in and enthusiasm for the subject, including developing an interest in further study and careers associated with the subject.
- Understand how society makes decisions about scientific issues and how the sciences contribute to the success of the economy and society.

Curriculum Implementation – What will my child be learning?

The subject uses a two-teacher approach where each teacher will teach separate topics.

Modules 1 and 2 are taught and then used throughout the length of the course as part of the ongoing Practical Endorsement across the two years.

Term 1	Half Term 1	Module 5 – Physical chemistry and transition metals Module 5 – Physical chemistry and transition metals
	Half Term 2	Module 5 – Physical chemistry and transition metals Module 5 – Physical chemistry and transition metals
Term 2	Half Term 3	Module 6 – Organic chemistry and analysis Module 6 – Organic chemistry and analysis



	Half Term 4	Module 6 – Organic chemistry and analysis Module 6 – Organic chemistry and analysis
Term 3	Half Term 5	Examination Preparation

Curriculum Impact – How will my child be assessed and receive feedback?

Learners must complete all components (01, 02, 03 and 04) to be awarded the OCR A Level in Chemistry A

Periodic table, elements and physical chemistry (01) 100 marks 2 hours 15 minutes written paper

Synthesis and analytical techniques (02) 100 marks 2 hours 15 minutes written paper

Unified chemistry (03) 70 marks 1 hour 30 minutes written paper

Practical Endorsement in chemistry (04) (non-exam assessment)

Content is split into six teaching modules:

- Module 1 – Development of practical skills in chemistry
- Module 2 – Foundations of chemistry
- Module 3 – The periodic table and energy
- Module 4 – Core organic chemistry
- Module 5 – Physical chemistry and transition elements
- Module 6 – Organic chemistry and analysis

Component 01 assesses content from modules 1, 2, 3 and 5.

Component 02 assesses content from modules 1, 2, 4 and 6.

Component 03 assesses content from all modules (1 to 6).

Super-Curricular Opportunities – Supporting and Extending Learning

Useful study resources	If a student is really passionate about this subject they can...
<p>Pearson OCR AS/A level Chemistry A. It is strongly advised that you purchase a Pearson revision guide to also support your studies.</p> <p>Alternatively take a look at some of these Websites:</p> <ul style="list-style-type: none">• http://www.chemguide.co.uk/• http://www.knockhardy.org.uk/sci.htm• http://www.docbrown.info/• https://www.amazon.co.uk/s?k=new+head+start+to+A+level&i=digital-text&ref=nb_sb_noss	<p>BBC RADIO 4</p> <ul style="list-style-type: none">• <u>Please see:</u> https://www.bbc.co.uk/programmes/b006qykl/episodes/player <p>RADIO 4 PODCASTS - SCIENCE</p> <ul style="list-style-type: none">• 'Life Scientific' - Accessible interviews of scientists on current themes and new research - details <p>RADIO 4 PODCASTS - SCIENCE</p> <ul style="list-style-type: none">• 'Putting Science to Work' - scientists work out how science



can best be put to work to solve a pressing problem facing society - [details](#)

TEDTALKS

Great entry level strategy as students can simply search by theme and then watch a video.