



## PLUME ACADEMY - LEARNING OVERVIEW

Year	12
Course	OCR Chemistry A - AS Level
Specification Number/Exam Board	H032 - OCR
Examination Papers and Weighting	Breadth in Chemistry – 50% Depth in Chemistry – 50%

### 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 students progress through the course, they will build on their knowledge of the basics of chemistry from their GCSE course, applying their understanding to solve problems on topics ranging from sub-atomic particles to the mechanisms of organic chemistry.

### Curriculum Intent – What are the curriculum aims?

OCR's AS Level in Chemistry A specification aims to encourage learners to:

- 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 1 - Development of Practical Skills in Chemistry Module 2 - Foundations of Chemistry Module 3 – The periodic table and energy
	Half Term 2	Module 3 – The periodic table and energy
Term 2	Half Term 3	Module 4 – Core organic chemistry



	Half Term 4	Module 4 - Core organic chemistry
Term 3	Half Term 5	Module 4 – Core organic chemistry Exam Preparation for AS Examination
	Half Term 6	Beginning of Year 13 Content Module 5 – Physical chemistry and transition elements Module 6 – organic chemistry and analysis

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

Learners must complete both components (01 and 02) to be awarded the OCR AS Level in Chemistry A:

Breadth in chemistry (01) 70 marks 1 hour 30 minutes written paper

Depth in chemistry (02) 70 marks 1 hour 30 minutes written paper

Content is split into four 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

Both components assess content from all four modules.

### 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"><li>• <a href="http://www.chemguide.co.uk/">http://www.chemguide.co.uk/</a></li><li>• <a href="http://www.knockhardy.org.uk/sci.htm">http://www.knockhardy.org.uk/sci.htm</a></li><li>• <a href="http://www.docbrown.info/">http://www.docbrown.info/</a></li><li>• <a href="https://www.amazon.co.uk/s?k=new+head+start+to+A+level&amp;i=digital-text&amp;ref=nb_sb_noss">https://www.amazon.co.uk/s?k=new+head+start+to+A+level&amp;i=digital-text&amp;ref=nb_sb_noss</a></li></ul>	<p>BBC RADIO 4</p> <ul style="list-style-type: none"><li>• <a href="https://www.bbc.co.uk/programmes/b006qykl/episodes/player">Please see: https://www.bbc.co.uk/programmes/b006qykl/episodes/player</a></li></ul> <p>RADIO 4 PODCASTS - SCIENCE</p> <ul style="list-style-type: none"><li>• 'Life Scientific' - Accessible interviews of scientists on current themes and new research - <a href="#">details</a></li></ul> <p>RADIO 4 PODCASTS - SCIENCE</p> <ul style="list-style-type: none"><li>• 'Putting Science to Work' - scientists work out how science can best be put to work to solve a</li></ul>



pressing problem facing society -  
[details](#)

**TEDTALKS**

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