

OCR A level Chemistry A

Dr A Page Chemistry





A-Level Chemistry





Have you ever wondered...

How spectroscopy can be used to solve a crime? Module 4.17

How blood acts as a buffer? Module 5.22

How does the shape and bonding in a molecule affect its smell?



Why study chemistry at A-level?

- ➤ A-level chemistry will give you an exciting insight into the contemporary world of chemistry.
- You will learn about chemistry in a range of different contexts and the impact it has on industry and many aspects of everyday life
- > You will learn to investigate and solve problems in a range of contexts.



Why study chemistry at The Ecclesbourne School?

- Specialist teachers within the chemistry department with a passion for particular areas of the course
- Excellent lab team and plenty of key equipment to allow PAGs to be completed to a high standard by all students
- Dedicated classrooms with fumehoods to allow more advanced reactions to take place
- Online resource subscriptions and textbooks



Entry Requirements

5 GCSEs including English (5) and maths (5)

66 from combined science

OR

6 in chemistry and 6 in either physics or maths

The chemistry A-Level does have a lot of mathematical components so it is preferable to have a strong maths GCSE



Advanced Chemistry OCR (Syllabus A)

This is a 2 year course

There are 3 exams at the end of Year 13

Practical elements embedded throughout both years via PAGS





Advanced Chemistry OCR (Syllabus A)

Paper 1: 37% 2h15

Periodic table, Elements and Physical Chemistry

Paper 2: 37% 2h15

Synthesis and Analytical Techniques

Paper 3: 26% 1h30

Unified Chemistry



Content Overview

Year 12: Module 1 – Practical skills in chemistry (PAGS)

Module 2 – Foundations in chemistry

Module 3 – Periodic table and energy

Module 4 – Core organic chemistry

Year 13: Module 5 – Physical chemistry and transition metals

Module 6 – Organic chemistry and analysis



Medicine and healthcare

Energy:

cleaner fuels, solar, batteries, hydrogen

Manufacturing:

food and drinks, household goods, cosmetics, inks

Research

Biochemistry, nanotechnology

> IT/Computing, publishing

Just about anywhere!

Teaching

Water industry

Agriculture

Local and central government

Environment:

monitoring recycling, reducing waste



Changing lives by developing new medicines, vaccines and medical devices





Fixing the future by finding ways to cope with the increasing pressures on energy, food, water and other scarce natural resources and to live more sustainably





Innovating industry by developing sustainable products and materials, and improving processes





Challenging opinions

through promoting scientific research and lobbying for policy changes





Being the catalyst by inspiring others through teaching chemistry





Working outside the lab in areas like the law, finance, journalism, the government, etc.





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If you have any further questions do not hesitate to contact

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