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 5.21

How does the shape and bonding in a molecule affect its smell? Module 6.25

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

Where chemistry can take you

Energy:
cleaner fuels, solar, batteries, hydrogen

Medicine and healthcare

Manufacturing:
food and drinks, household goods, cosmetics, inks

Research

Just about anywhere!

Biochemistry, nanotechnology

Agriculture

Water industry

IT/Computing, publishing

Local and central government

Teaching

Environment:
monitoring recycling, reducing waste

Where chemistry can take you

Changing lives by developing new medicines, vaccines and medical devices

Where chemistry can take you

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

Where chemistry can take you

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

Where chemistry can take you

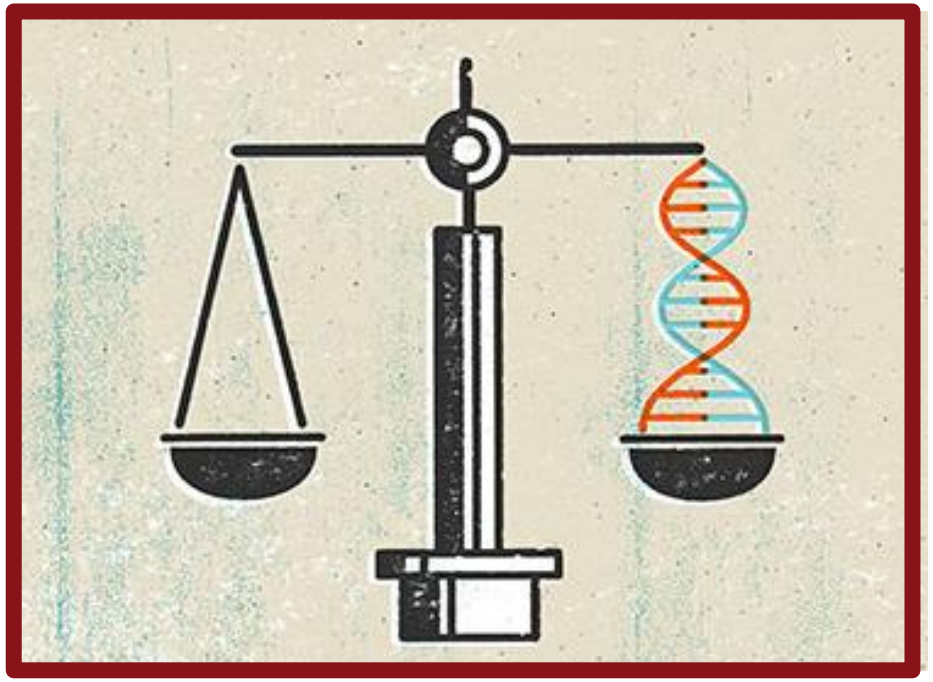
Challenging opinions
through promoting scientific research and lobbying for policy changes

Where chemistry can take you

Being the catalyst by inspiring others through teaching chemistry

Where chemistry can take you

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

Dr A Page

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