

<https://aqa.org.uk/subjects/science/as-and-a-level/chemistry-7404-7405>

## Why Chemistry?

This exciting course attempts to answer the big question “What is the world made of?” and in the search for this answer you will be investigating how one substance can be changed drastically into another, through to researching a new wonder drug to save millions of lives.

The course covers a broad range of topics within Physical, Inorganic and Organic chemistry including atomic structures, thermodynamics, periodicity, transition metals, alkanes and DNA. Practicals include measuring energy changes, identifying different compounds, preparing organic solids and liquids and undertaking advanced chromatography.

The opportunities are endless!

## Assessment

35% - Paper 1 - Inorganic and Physical Chemistry

35% - Paper 2 - Organic and Physical Chemistry

30% - Paper 3 - Synoptic

Practical endorsement assessed during lessons (pass/fail)

## Recommended Reading

AQA Chemistry A Level Textbook Year 1 and Year 2, by Lister and Renshaw accessible through Kerboodle.

AQA A Level Chemistry Revision Guide Year 1 and Year 2 can be purchased through the department.

<https://www.kerboodle.com>

<http://st-gregorys-science.weebly.com/>

## Recommended Entry Requirements

Grade 6 GCSE Chemistry or Grade 6-6 GCSE Combined Science

Grade 6 Mathematics

Students who have studied Combined Science must complete additional preparatory work over the summer holidays.

## Future Pathways

University degrees, apprenticeships and careers in Engineering, Medicine, Veterinary Science, Personnel, Pharmaceuticals, Toxicology, Biomedical Chemistry, Teaching, Lab Work and even Politics!

## Complementary A Levels

Biology, Maths, Physics, Psychology, Core Maths

## Extra & Super Curricular

Attend a scientific conference.

Support lower school students and run STEM/Science club activities.

*“The teaching is excellent with staff always willing to go the extra mile to help you master the content.”*