

A-Level Chemistry



Opportunities

Students studying Chemistry are taught by subject specialists.

University visits to develop further interest and competitions such as “Young Analysts”.

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Learning with Chemistry!

- Understand the substances that make up the world around us.
- Develop critical thinking.
- Develop problem-solving skills.
- Develop practical skills.
- Develop communication, literacy, numeracy, teamwork, and analytical skills.
- Understand how compounds are synthesised and how they are used in the development of drugs and other useful innovations.
- Chemistry allows us to make a positive impact on the world we live in.
- Chemists are leading research on the world’s most pressing matters including climate change, energy and the challenges around human health.



Why study this course at Bellerive FCJ Sixth Form?

Chemistry is the subject that allows students to learn about world we live in. Chemistry is all around us and an understanding of the subject can help to answer many questions about everyday life.

Subject teachers in Chemistry are well qualified, enthusiastic, experienced, and caring. The department is well equipped with the resources needed for students to be successful, e.g. up to date textbooks, work booklets, past exam practice software.

What will I study? Course code is 7404 A Level Chemistry with AQA.

Physical Chemistry:

Y12 – atomic structure, amount of substance, bonding, energetics, kinetics, equilibria, redox

Y13 – thermodynamics, rate equations, equilibrium constant K_p , acids and bases

Inorganic Chemistry:

Y12 – periodicity, group 2, group 7

Y13 – period 3 elements and their oxides, transition metals, reactions of ions in aqueous solutions

Organic Chemistry:

How will I be assessed?

Three separate examination papers in the Summer of Year 13.

Paper 1 - Any content from Physical and Inorganic Chemistry topics, including relevant practical skills.
Written exam: 2 hours/105 marks/35% of A-level.

Questions are a mix of short and long answer questions.

Paper 2 - Any content from Physical and Organic Chemistry topics, including relevant practical skills.
Written exam: 2 hours/105 marks/35% of A-level.

Questions are a mix of short and long answer questions.

Paper 3 - Any content, including relevant practical skills.
Written exam: 2 hours/90 marks/30% of A-level.

40 marks: structured questions on practical techniques and data analysis

20marks: testing across the specification

30 marks: Multiple choice questions.

Also, students will study the CPAC required practical tasks in line with AQA requirements for the practical endorsement. (12 required practical tasks)

What can the course lead on to?

Chemistry has continued to be one of the most employable degrees.

Chemistry is the central science linking physical sciences like Maths and Physics with applied sciences like Biology, Medicine and Engineering.

Studying Chemistry can lead to an exciting future working in fields such as Medicine, Engineering, Research and Development, Environmental Science, Pharmacy and Forensic Science.

Many Chemical companies have expanded in recent years allowing opportunities for international travel and working globally including developing countries.

