St Julie's CATHOLIC HIGH SCHOOL
A Specialist Language College

A Level: Chemistry

Science

AS Chemistry builds upon the work covered in GCSE Science and GCSE Additional Science. The ideas about 'How Science Works' introduced at GCSE are integrated and carried on through A level.

In **Unit 1** Foundation Chemistry, students develop further what they have learned about the structure of the atom, how atoms bond together and trends across the Periodic Table. It also introduces Organic Chemistry.

Unit 2 takes expands on the Organic Chemistry covered in Unit 1 as well as further developing Physical and Inorganic Chemistry concepts such as Energy, Rates of Reaction, Equilibria, Redox, the chemistry of the Group 2 and Group 7 elements and extraction of metals.

Unit 3 is internally assessed and credits student's practical skills. The first part of this is the Practical Skills Assessment (PSA). This requires students to undertake 12 standard practical tasks for which they are marked. The second part of the unit is the Investigative Skills Assessment (ISA). Students will collect and process data and answer a written paper related to it.

In **A2** students

- develop their interest in and enthusiasm for the subject, including developing an interest in further study and careers in the subject
- appreciate how society makes decisions about scientific issues and how the sciences contribute to the success of the economy and society
- develop and demonstrate a deeper appreciation of the skills, knowledge and understanding of 'How Science Works'.

Course Facts & Figures at a glance...

Subject Leader
Mr Gee

Course Title
A-Level Chemistry

QAN Code
500/2614/8

Awarding Body
AQA

Number of Units
3 per year

Unit Titles
1 Foundation Chemistry
2 Chemistry in Action
3 Investigative and Practical Skills
4 Kinetics, Equilibria and Organic Chemistry
5 Energetics, Redox and Inorganic Chemistry
6 Investigative and Practical Skills in A2 Chemistry

Number of Entrants Last Year
AS: 16 **A2:** 5

Percentage Pass Rate Last Year
AS: 86% **A2:** 100%

Studying Chemistry opens up a wide range of career paths.

It is essential for those wishing to pursue a career in *medicine, veterinary science* or *dentistry*. A qualification in Chemistry can lead to degrees courses in *Chemistry, Biochemistry, Environmental Science, Earth Sciences and Material Sciences*.

Possible future careers that require Chemistry include *Analytical Chemist, Astronaut, Clinical Scientist, Food Scientist, Forensic Scientist, Laboratory Technician, Materials Scientist, Metallurgist, Meteorologist, Oceanographer, Pharmacist, Research Scientist, Toxicologist and Zoologist* to name but a few!