

AQA AS & A LEVEL CHEMISTRY



Fides Caritas Unitas

ALL SAINTS
ROMAN CATHOLIC SCHOOL • YORK

Building from an atomic level, this two-year course helps you to better understand and improve the world in which we live while developing a multitude of transferable skills suitable for any workplace. The combination of academic challenge and practical focus makes the prospect of studying A Level Chemistry highly appealing. You will learn about Chemistry in a range of different contexts and the impact it has on industry and many aspects of everyday life.

COURSE CONTENT

Year 12

Physical Chemistry

Atomic Structure, Amount of Substance, Bonding, Energetics, Kinetics, Equilibria, Redox

Inorganic Chemistry

Periodicity, Group 7, Group 2

Organic Chemistry

Introduction to Organic Chemistry, Alkanes, Haloalkanes, Alkenes, Alcohols, Chemical Analysis

Year 13

Physical Chemistry

Thermodynamics, Kinetics, Equilibria (K_p), Electrochemistry, Acids and Bases

Inorganic Chemistry

Period 3 Elements and their Oxides, Transition metals, Reactions of Aqua-Metal Ions

Organic Chemistry

Nomenclature and Isomerism, Carbonyl Compounds, Aromatics, Amines, Polymers, Biochemistry, Organic Synthesis and Analysis, Structural Determination

ASSESSMENT

Y13 formal examination:

Paper 1: Physical and Inorganic Chemistry (120 minutes / 105 marks)

Paper 2: Physical and Organic Chemistry (120 minutes / 105 marks)

Paper 3: Synoptic Chemistry (120 minutes / 90 marks)

SUBJECT COMBINATIONS

A level Chemistry matches very well with A-level Mathematics, Biology, Physics and Computer Science

ENTRY REQUIREMENTS

Students should have achieved:

-a minimum of 6-6 in GCSE combined science or a grade 6 in GCSE Chemistry

-a grade 6 in GCSE mathematics

PROGRESSION

Chemistry is a very highly credited A level subject and allows progression into many different areas. Higher education options include a degree in Medicine, Dentistry, Veterinary, Biochemistry, Engineering, Environmental sciences, Pharmacology and Chemistry itself.

Apprenticeship options include becoming a Lab Technician, Lab Scientist, Food Technologist or Engineer.

FUTURES

COURSE CONTACT

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