St Margaret Ward Catholic Academy

Sixth Form

CHEMISTRY

A LEVEL

Proud partner of Trinity Sixth Form

CHEMISTRY

What is the level of course I will take?

A Level Chemistry with AQA.

What level of GCSEs do I need to take this course?

Minimum of 5 x GCSE grade 5 including a Grade 6 minimum in GCSE Chemistry or 6-6 in GCSE Combined Science. A Grade 6 in GCSE Maths is desirable.

How will I be assessed?

Paper 1 written exam (35%):
- Inorganic chemistry, with relevant physical chemistry
- Relevant practical skills.

Paper 2 written exam (35%):
- Organic chemistry, with relevant physical chemistry
- Relevant practical skills.

35% of A-level

Paper 3 written exam (30%)
- All practical skills
- All content

Course Content

Year 12

- Physical chemistry - Including atomic structure, amount of substance, bonding, energetics, kinetics, chemical equilibria and Le Chatelier's principle
- Inorganic chemistry - Including periodicity, Group 2 the alkaline earth metals, Group 7 the halogens
- Organic chemistry - Including introduction to organic chemistry, alkanes, halogenoalkanes, alkenes, alcohols, organic analysis

Year 13

- Physical chemistry - Including thermodynamics, rate equations, the equilibrium constant Kp, electrode potentials and electrochemical cells
- Inorganic chemistry - Including properties of Period 3 elements and their oxides, transition metals, reactions of ions in aqueous solution
- Organic chemistry - Including optical isomerism, aldehydes and ketones, carboxylic acids and derivatives, aromatic chemistry, amines, polymers, amino acids, proteins and DNA, organic synthesis, NMR spectroscopy, chromatography

How will the course help me after Sixth Form?

According to bestcourse4me.com, the top five degree courses taken by students who have an A-level in Chemistry are: Chemistry, Biology, Pre-clinical medicine, Mathematics and Pharmacology.
Studying an A-level Chemistry related degree at university gives you all sorts of exciting career options, including: Analytical chemist, Chemical engineer, Clinical biochemist, Pharmacologist, Doctor, Research scientist (physical sciences), Toxicologist, Chartered certified accountant, Environmental consultant, Higher education lecturer, Patent attorney, Science writer, Secondary school teacher.

For further information,
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