Abbey Gate College
Sixth Form

Chemistry

AQA

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Why study this at A Level?

From the moment you entered this world, Chemistry has been part of your life.

It helps us to understand the world in which we live and underpins a wide range of science-based degree courses and careers. Chemists understand how materials are made and work and, in this way, can shape the world we live in.

Course Content and Assessment

Year 12

- *Physical chemistry: including atomic structure, amount of substance, bonding and kinetics.*
- *Inorganic chemistry: including periodicity, Group 2 and Group 7*
- *Organic chemistry: introducing isomerism and nomenclature, alkanes, alkenes, halogenoalkanes, alcohols and organic analysis.*

Assessment: 3 papers, 2 hours each, all test relevant practical skills.

- *Paper 1. Physical and inorganic content.*
- *Paper 2. Physical and organic content. 105 marks. 35% of A level.*
- *Paper 3. Any content. 90 marks. 30% of A level.*

Skills obtained

- *The course covers at least 12 major practicals across the 2 year course and students will gain skills to link theory, with practise deepening their understanding and knowledge. The pupils, if deemed competent, will receive a practical endorsement at the end of the course acknowledged by universities.*

Our students have gone on to pursue a number of related university courses including Medicine, Animal science, Biochemistry, Organic chemistry, Chemical engineering, Natural sciences, Equine Science and Sports Performance and many more

Year 13

- *Physical chemistry: including thermodynamics, rate equations, electrode potentials and electrochemistry.*
- *Inorganic chemistry: including properties of Period 3 elements, transition metals and reactions in aqueous solutions.*
- *Organic chemistry: including optical isomerism, aldehydes and ketones, carboxylic acid derivatives, aromatic chemistry, biochemistry, organic synthesis, NMR spectroscopy and chromatography.*