

Key Stage 5: Chemistry Year 1

Subject Specifications

Exam board: AQA: 7404

Level: Level 3

<http://www.aqa.org.uk/subjects/science/as-and-a-level/chemistry-7404-7405>

Course Description

What will be studied?

Physical Chemistry

Atomic structure, Amount of substance, Bonding, Energetics, Chemical equilibria, Le Chatelier's principle and K_c , and Oxidation, reduction and redox equations

Inorganic Chemistry

Periodicity, Group 2, the alkaline earth metals, Group 7(17), The Halogens

Organic Chemistry

Introduction of organic chemistry, Alkanes, Halogenoalkanes, Alkenes, Alcohols, and Organic analysis

Entry requirements

What are the entry requirements?

The minimum entry requirement will be six GCSE qualifications at grade 5 - 9 including English Language and Mathematics. In addition to this students will be expected to achieve minimum of a grade 6 in all three separate sciences or grade 6, 6 in combined sciences.

[Click here to access the Chemistry Enrolment Task](#)

Assessment

How will I be assessed?

Paper 1: 7404/1 [50%]

Paper 2: 7404/2 [50%]

Assessed by a 1 ½ hour internal examination in the Summer Term

Assessed by a 1 ½ hour internal examination in the Summer Term

Careers & Progression

Career ideas and Progression route

Students will progress into Year 2 during which you have the opportunity to gain an A Level qualification in this subject.

How can I help my child?

Guidance and advice

Further reading:

- **Kerboodle.com** – all students have login details for a free version of the textbook used in lessons. This also includes videos, support and extension activities.
 - [Glossary of Technical Terminology](#)
 - [Recommended Text Books](#)
 - [Past Exam Papers](#)
 - [Chemistry Related Articles](#)
 - [Chemistry VIP Zone](#)
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Key Stage 5: Chemistry Year 2

Subject Specifications

Exam board: AQA: 7405

Level: Level 3

<http://www.aqa.org.uk/subjects/science/as-and-a-level/chemistry-7404-7405>

Course Description

What will be studied?

Physical Chemistry: As well as revision of Year 1 topics, you will study: Thermodynamics, Rate equations, Equilibrium constant K_p for homogeneous systems, Electrode potentials and electrochemical cells, and Acids and bases

Inorganic Chemistry: As well as revision of Year 1 topics, you will study: Properties of Period 3 elements and their oxides, Transition metals, and Reactions of ions in aqueous solution

Organic Chemistry: As well as revision of Year 1 topics, you will study: Optical isomerism, Aldehydes and ketones, Carboxylic acids and derivatives, Aromatic chemistry, Amines, Polymers, Amino acids, proteins and DNA, Organic synthesis, Nuclear magnetic resonance spectroscopy, and Chromatography

Entry requirements

What are the entry requirements?

[Click here for the Chemistry Transition Task](#)

The minimum recommended entry requirement is a D grade at AS Level [Year 1]

Assessment

How will I be assessed?

Paper 1: 7405/1 [35%]	Assessed by a 2 hour examination in the Summer Term
Paper 2: 7405/2 [35%]	Assessed by a 2 hour examination in the Summer Term
Paper 3: 7405/3 [30%]	Assessed by a 2 hour examination in the Summer Term

Careers & Progression

Career ideas and Progression route

Level 3 qualifications in Chemistry will enable students to enter degree & degree level courses related to Engineering, Medicine and Research

[Click here for information on Careers in Chemistry](#)

How can I help my child?

Guidance and advice

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 - [Recommended Text Books](#)
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