

Key Stage 5 - Level 3 Chemistry

Year 1:

Exam Information	
Exam board and Specification Number:	
AQA: 7404	
Click here for the link to the exam board specification website.	
Assessment	
These are the Unit Codes and their percentage weighting at AS Level:	
Paper 1: 7404/1 [50%]	Assessed by a 1 ½ hour internal examination in the Summer Term.
Paper 2: 7404/2 [50%]	Assessed by a 1 ½ hour internal examination in the Summer Term.
If students are on an A Level programme the above exams will be internally assessed.	

Year 1:

These are the Units of Work/Modules we study in Year 1:
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

Students must complete the Year 12 Summer Preparation Task before beginning the course.
The minimum entry requirement will be six GCSE qualifications at Grades 5 - 9 including English Language and Mathematics. In addition to this students will be expected to achieve a minimum of a Grades 6 in Chemistry and 5 in Physics and Biology or Grades 6, 6 in combined sciences.

Careers & Progression

Career ideas and Progression route:
Students will progress into Year 2 where they can gain an A Level qualification in this subject.

How can I help my child?

Further exploration:
<ul style="list-style-type: none">➤ 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

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Year 2:

Exam Information

Exam board and Specification Number:

AQA: 7405

Click [here](#) for the link to the exam board specification website.

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?

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

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](#)