A Level Chemistry

Exam board & Specification Number	AQA		
Qualification Accreditation Number (QAN)	60157318		
Link to Course Details Webpage	Click Here		
Duration, Delivery and Study Mode	Two Years	Full Time	Day Time Study
Start Date (not flexible) and Campus	01 September from Stanley Avenue Campus		

Course Details: Who is this Course for?

This course is for students progressing from GCSE into Level 3 (A Level or Equivalent) studies, with a view to study this subject or related subjects at degree level.

Course Details: What Will You Learn?

Year 1	**Physical Chemistry:** Atomic structure, Amount of substance, Bonding, Energetics, Chemical equilibria, Le Chatelier's principle and Kc, 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.
Year 2	**Physical Chemistry:** As well as revision of Year 1 topics, you will study: Thermodynamics, Rate equations, Equilibrium constant Kp 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

Course Details: How will you be Assessed?

These are the Unit Codes and their percentage weighting at A Level:

Paper 1: 7405/1	Assessed by a 2 hour examination in the Summer Term.
Paper 2: 7405/2	Assessed by a 2 hour examination in the Summer Term
Paper 3: 7405/3	Assessed by a 2 hour examination in the Summer Term

Course Details: Entry Requirements

Please see our webpage for details of our course entry requirements.

Students must achieve a D grade or higher at the end of Year 12 in order to progress into Year 2 of this course.

Progression Information and Useful Links on Page 2

Additional Course Information

Course Details: How will you Learn?

Delivery Mode:

- ☐ Classroom based teaching
- ☐ Classroom based laboratory experiments
- ☐ Flipped Learning based independent study

Course Details: Equipment / Materials you will need

- ☐ Kerboodle Digital Textbook: Provided to you by the school
- ☐ Scientific Calculator
- ☐ Writing Paper and Stationary including Ruler
- ☐ All other equipment will be provided to you by the school

How can I prepare for and explore this course further?

- ☐ Glossary of Technical Terminology
- ☐ Recommended Text Books
- ☐ Past Exam Papers
- ☐ Chemistry Related Articles

Careers & Progression (Where Next)?

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 and examples of Careers in Chemistry