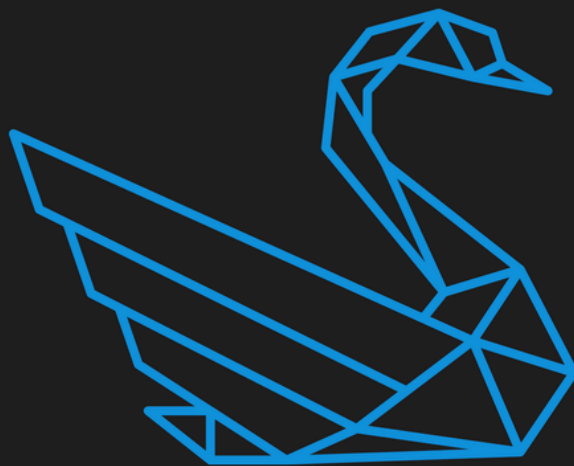


CHELMER VALLEY SIXTH FORM

#THE HEART OF THE SCHOOL



CHEMISTRY

A LEVEL

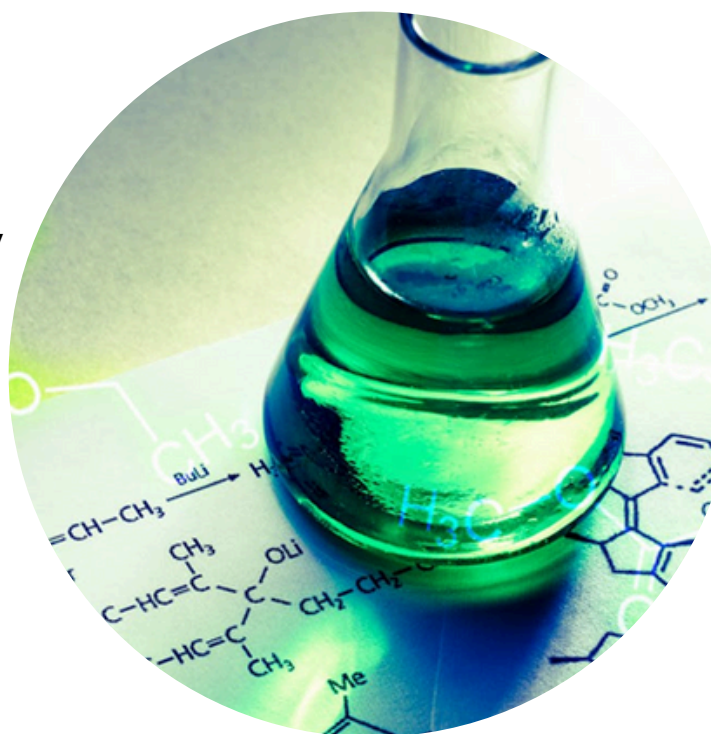
Contact: Mr Harley, Head of Chemistry

Course Content:

Paper 1: Physical and Inorganic 105 marks

Paper 2: Physical and Organic 105 marks

Paper 3: All content 90 marks

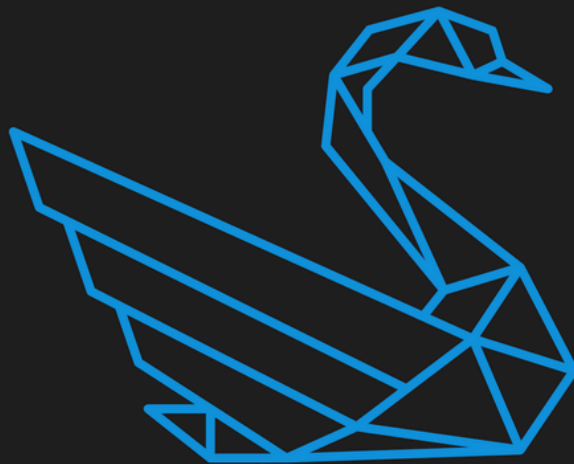


Why you should do this course...

- ✓ Subject content is relevant to real world experiences and is interesting to teach and learn.
- ✓ The course is a stepping stone to future study, which why universities were consulted, to ensure this specification allows students to develop the skills that they want to see.
- ✓ The course will inspire students, nurture their passion for chemistry and lay the groundwork for further study in courses such as chemistry, medicine and pharmacy.

CHELMER VALLEY SIXTH FORM

#THE HEART OF THE SCHOOL



CHEMISTRY A LEVEL



More detail on Papers:

AS Level/Year 1:

Atomic structure
Amount of substance
Bonding
Energetics
Kinetics
Chemical equilibria, Le Chatelier's principle and K_c
Oxidation, reduction and redox equations
Periodicity
Group 2, the alkaline earth metals
Group 7(17), the halogens
Introduction to organic chemistry
Alkanes
Halogenoalkanes
Alkenes
Alcohols
Organic analysis

A Level/Year 2:

Thermodynamics
Equilibrium constant K_p for homogeneous systems
Electrode potentials and electrochemical cells
Acids and bases
Properties of Period 3 elements and their oxides
Transition metals
Reactions of ions in aqueous solution
Optical isomerism
Aldehydes and ketones
Carboxylic acids and derivatives
Aromatic chemistry
Amines
Polymers
Amino acids, proteins and DNA
Organic synthesis
Nuclear magnetic resonance spectroscopy
Chromatography

We believe that chemistry is fundamentally an experimental subject. This specification provides numerous opportunities to use practical experiences to link theory to reality, and equip students with the essential practical skills they need.