



# The Oldershaw School

A Level Chemistry - HOD: Miss A Brennan

## Course Outline & Exam Ratio

Entry requirements are grade 6 in GCSE Chemistry or 6-6 in Combined Science and a 6 in GCSE Maths.

The main content is split into Organic Chemistry, Physical Chemistry and Inorganic Chemistry. There are twelve core practical activities which are internally assessed and provide students with a practical competency skills certificate.

### AQA Year 12 (Year 1)

**Physical Chemistry** - Atomic structure, Amount of substance, Bonding page, Energetics page, Kinetics, Chemical equilibria, Le Chatelier's principle, Oxidation, reduction and redox equations,

**Inorganic Chemistry** - Periodicity Group 2, the Alkaline Earth metals, Group 7, the Halogens

**Organic Chemistry** - Introduction to organic chemistry, Alkanes, Halogenoalkanes, Alkenes, Alcohols Organic analysis.

### AQA Year 13 (Year 2)

**Physical Chemistry** - Rate equations, Equilibrium constant  $K_p$  for homogeneous systems, Electrode potentials and electrochemical cells, Acids and Bases.

**Inorganic Chemistry** - Properties of Period 3 elements and their oxides, Transition metals, Reactions of ions in aqueous solution.

**Organic Chemistry** - 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.

## Progression Routes

A level Chemistry is designed to give pupils the necessary qualifications to progress into higher education.

It is a mandatory requirement for most medical courses e.g. Medicine, Dentistry and Pharmacy. It is also taken by many Law applicants as it demonstrates an analytical mind which can cope with complex concepts. Chemistry is also required for a diverse range of other career paths such as Veterinary Science, Chemical Engineering, Environmental Science and Oceanography.

If you are not thinking of attending a higher level course after sixth form, A- level Chemistry provides students with higher level thinking skills, specifically analytical practical skills and problem solving skills which many employers are looking for.

## Enrichment Opportunities

We organise STEM trips to local universities, in particular University of Liverpool and LJMU via their Chemistry and Chemical Engineering outreach programmes.

**Apply  
Here**