



STAFFORD

14-19 Partnership

## Course title: Chemistry Spec A A-Level OCR (Block E)

<b>Academic year:</b>	2022
<b>Course Venues:</b>	The Weston Road Academy
<b>Course Type:</b>	A-level
<b>Course Code:</b>	12EWrCH1
<b>Duration:</b>	2 years

### Course Description:

A Level Chemistry will give you an exciting insight into the contemporary world of chemistry. It covers the key concepts of chemistry and practical skills are integrated throughout the course. This combination of academic challenge and practical focus makes the prospect of studying A Level Chemistry highly appealing.

### Course Content:

- Atoms, compounds, molecules and equations
- Enthalpy, entropy and free energy
- Amount of substance
- Redox and electrode potentials
- Acid–base and redox reactions
- Transition elements
- Electrons, bonding and structure
- Organic chemistry
- The periodic table and periodicity
- Polymers
- Group 2 and the halogens
- Organic synthesis
- Reaction rates and equilibrium
- Analytical techniques (IR and MS)
- pH and buffers
- Chromatography and spectroscopy (NMR)

Emphasis throughout the course is on developing knowledge, competence and confidence in practical skills and problem solving. You will learn how society makes decisions about scientific issues and how sciences contribute to the success of the economy and society.

**Entry requirements:** The standard entry criteria to study in the sixth form are a 9-4 in at least seven different subjects, including English and mathematics, which would usually be at grade 4 or above.

To study science subjects at A-level (biology, chemistry, physics or psychology), you will be required to achieve at least a 6.6 grade in combined science or have achieved 6 or above in the individual subject area if taken as a separate science.





**Assessment:**

**Financial Information:**

**Future opportunities:** A Level Chemistry A is an excellent base for a university degree in healthcare such as medicine, pharmacy and dentistry as well as the biological sciences, physics, mathematics, pharmacology and analytical chemistry. Chemistry is also taken by many law applicants as it shows you can cope with difficult concepts. Chemistry can also complement a number of arts subjects. A range of career opportunities including chemical, manufacturing and pharmaceutical industries and in areas such as forensics, environmental protection and healthcare. The problem solving skills are useful for many other areas, too, such as law and finance.

**Further information:**

To find out more about this qualification, contact us, ask your Connexions Personal Adviser or school/college careers staff.

