Maelor Sixth



Chemistry
WJEC A Level

Subject Leader: Mrs L Chesworth

Introduction

Chemistry is a vibrant and exciting subject that is referred to as the “central science” as it connects all the other sciences. Chemistry engages in everything around us from the food we eat to the medicines that keep us healthy. The skills involved in studying Chemistry A Level are ideal for future university degrees and employment.

The Course

Year One

Unit 1
Basic ideas about atoms, chemical calculations, bonding and solid structures, the periodic table, simple equilibria, and acid base reactions.



Unit 2
Thermochemistry, rates of reaction, organic compounds, hydrocarbons, halogenoalkanes, alcohols and carboxylic acids and instrumental analysis

Year Two

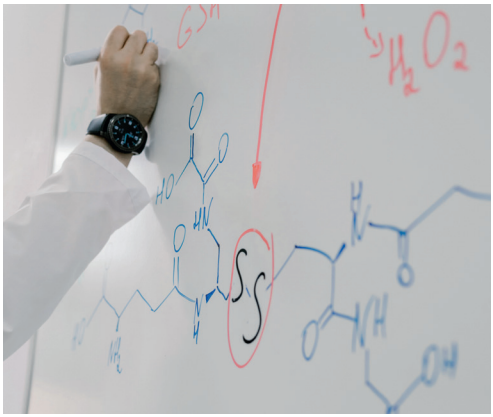
Unit 3
Electrochemistry, redox reactions, chemistry of the p and d block, kinetics, enthalpy changes, entropy, equilibrium, and acid-base equilibria

Unit 4
Isomerism, aromaticity, alcohols and phenols, aldehydes, ketones and carboxylic acids, nitrogen containing compounds and organic synthesis and analysis

Assessment

AS - Year 12
Two written examinations in the summer term of Year 12 for the AS qualification worth 40% of the full A Level grade

A Level - Year 13
Two written examinations in the summer term of Year 13 - 50% of the final A Level. A practical exam in the summer term of Year 13 worth 10% of the full A Level grade.



Entry Requirements

As a minimum, students will require:

- GCSE grade B/6 in Chemistry and another Science subject grade B/6 **or**
- GCSE grade B/6 in the Higher Double Award Science **or**
- GCSE grade B/6 in Core and Additional Science, Higher Tier

- GCSE grade B/6 in Mathematics as this course has a mathematics module worth 10%
- GCSE grade C/4 in English



Links to Future Careers

Chemistry uses and develops skills which are very desirable for future employment, including problem solving, research, analytical, numeracy, practical skills, teamwork, and communication.

Potential careers involve those in healthcare such as:

- Medicine
- Pharmacy and Dentistry
- Biological sciences
- Physics
- Mathematics
- Pharmacology
- Analytical chemistry

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