

Science: KS5 A Level Chemistry

Subject:

This is a 2 year course that further develops the concepts learnt in GCSE Chemistry. Students develop an understanding of the main concepts in inorganic, organic and physical Chemistry, in addition to an awareness of the context of industry and the wider world. This course has been designed to enable students to study chemistry in a range of contexts to allow them to become involved in the excitement of contemporary Chemistry.

There are 5 lesson of Chemistry per week following the OCR Chemistry B (Salters) specification. Module 1 – Development of Practical Skills in Chemistry will be taught and assessed throughout the course.

The aims of the specification we are following, are to encourage candidates to:

- develop an essential knowledge and understanding of different areas of Chemistry and how these areas relate to each other,
- develop and demonstrate a deep appreciation of the skills knowledge and understanding of scientific methods; this will be linked closely to an endorsement of practical skills,
- develop competence and confidence in a variety of practical mathematical and problem solving skills,
- develop an interest in and enthusiasm for Chemistry, including developing an interest in further study and careers associated with the subject,
- develop an understanding of how society makes decisions about scientific issues and how the sciences contribute to the success of the economy and society.

Content Overview

Content is split into 3 modules with 10 thematic streams. (These are detailed below)

Assessment Overview

Fundamentals of Chemistry (01)
110 marks
2 hours 15 minutes
Written exam

Scientific literacy in chemistry (02)
100 marks
2 hours 15 minutes
Written exam

Practical skills in chemistry (03)
60 marks
1 hour 30 minutes
Written exam

Practical Endorsement in Chemistry (Non exam)

Team members:

Teaching Team:

Mrs K Tatham (Second in Science) - Chemistry specialist.
Mr A Riaz - Chemistry and Physics specialist.

Support Team:

Mrs M Bibi - Curriculum Area Teaching Assistant.
Mrs V Nolan - Chemistry specialist technician.

Facilities:

We have seven laboratories spread across the two buildings that form the Main Block and Trent Building. These are serviced by three specialist technicians who also support extra curricula activities.

Curriculum Summary: (KS5)

The AS the modules are divided as follows:

Module 01/02 – Foundations in Chemistry/Chemistry in depth Teacher
Development of practical skills in Chemistry All – embedded throughout.

- Elements of life Year 1 /AS.
- Developing fuels Year 1 /AS.
- Elements from the sea Year 1 /AS.
- The ozone story Year 1 /AS.
- What is in a medicine? Year 1 /AS.

Module 01/02/03 – fundamentals of Chemistry/Scientific literacy in chemistry/ practical skills in chemistry practical Endorsement (04) All – embedded throughout

- Elements of life Year 2 /A2.
- Developing fuels Year 2 /A2.
- Elements from the sea Year 2 /A2.
- The ozone story Year 2 /A2.
- What is in a medicine? Year 2 /A2.
- The chemical industry Year 2 /A2.
- Polymers and life Year 2 /A2.
- Oceans Year 2 /A2.
- Developing metals Year 2 /A2.
- Colour by design Year 2 /A2.

Links to useful sites:

www.chemguide.co.uk
<http://www.s-cool.co.uk>
www.docbrown.info/teachyourselfchemistry.htm
www.knockhardy.org.uk/sci.htm#helpsheet
www.creative-chemistry.org.uk/links.htm
<http://www.my-edu2.com/eduframe.htm>
http://www.revision-notes.co.uk/A_Level/Chemistry/index.html
www.xtremepapers.net
www.revision-notes.co.uk

Extra-curricular activities available in the CA:

Staff provide lunch time and after school support sessions, which students are encouraged to attend. This is when students can go through errors in homework, misconceptions or just general support. Students at Key Stage 5 are also invited to Saturday school between 10am and 12pm for additional support in Core subjects.