CHEMISTRY

Aims of the Course

- Make decisions about the way chemistry affects everyday life by applying concepts into contemporary areas of chemistry including climate change, green chemistry and pharmaceuticals.
- Develop a range of generic skills requested by employers end universities such as problem-solving, oral and written communication, bundling data and ICT.
- Build up a range of practical skills that require creativity and accuracy as well as developing a firm understanding of Health and Safety issues.
- Work effectively as part of a group developing team participation and leadership skills.
- Take responsibility for selecting appropriate qualitative and quantitative methods, recording your observations accurately and precisely as well as critically analysing and evaluating the methodology, results and impact of your own and others' experimental and investigative activities.

Types of Learning Experience:

Students will study two modules in Year 12 and complete core practicals to develop laboratory skills. A similar structure also applies in Year 13 with laboratory skills assessed in a third exam paper. Lessons will vary in format from lecture style to research, independent learning, practical and investigative work.

Students are expected to keep a coherent folder of notes, exercises and practical write-ups throughout the course. Background reading should be done on a regular basis as well as keeping up to date with current trends by watching relevant TV programmes and reading science magazines

Link Subjects:

Chemistry may be taken with any combination of subjects, but is particularly complemented by subjects such as Biology, Physics, Mathematics or Geography.

Progress to HE:

An A Level in Chemistry is essential for courses such as Medicine, Veterinary Science, Pharmacy, Dentistry and Chemical Engineering.

Careers:

Whilst many job opportunities specifically using chemistry require higher qualifications, most laboratory based jobs benefit from a chemistry qualification, for instance dental assistant or veterinary assistant. Many employers view success at GCE Chemistry as a clear indication of sound academic ability.

Entry requirements:

A minimum of 5 grades 9-4 at GCSE including English. A minimum of grades 7,6, 6 in any order in GCSE Science and Maths is required.



CHEMISTRY continued



