**CHEMISTRY HIGHER**

The main aims of this Course are learners:

* demonstrating knowledge and understanding of Chemistry by making statements, describing information, providing explanations and integrating knowledge
* applying Chemistry knowledge to new situations, analysing information and solving problems
* planning and designing experiments/practical investigations to test given hypothesis or to illustrate particular effects including safety measures
* carrying out experiments/practical investigation safely, recording detailed observations and collecting data
* selecting information and presenting information appropriately in a variety of forms
* processing information (using calculations and units, where appropriate)
* making predictions and generalisations from evidence/information
* drawing valid conclusions and giving explanations supported by evidence/justification
* evaluating experiments/practical investigations and suggesting improvements
* communicating findings/information effectively

**CONTENT**

**Chemical Changes and Structure**

This Unit covers the knowledge and understanding of controlling reaction rates and periodic trends, and strengthens the learner’s ability to make reasoned evaluations by recognising underlying patterns and principles.

**Nature’s Chemistry**

This Unit covers the knowledge and understanding of organic chemistry within the context of the chemistry of food and the chemistry of everyday consumer products, soaps, detergents, fragrances and skincare.

**Chemistry in Society**

This Unit covers the knowledge and understanding of the principles of physical chemistry which allow a chemical process to be taken from the researcher’s bench through to industrial production.

**Researching Chemistry**

This Unit covers the key skills necessary to undertake research in chemistry. Learners will research the relevance of chemical theory to everyday life by exploring the chemistry behind a topical issue.

**INTERNAL ASSESSMENT**

To pass the Chemistry course, learners must pass all of the required Units. This includes a Unit Assessment (NAR), and a practical write up.

**EXTERNAL ASSESSMENT**

Learners must sit an external exam and complete a practical investigation. Both of these elements are externally marked.

**HOMEWORK**

About 90 minutes per week to go over notes, answer questions and prepare for tests.

**ENTRY REQUIREMENTS**

Pupils should have a grade A-C at National 5 level Chemistry, however, pupils with a C level pass may struggle with this course.