

## Chemistry National 5

### **AWARD RECEIVED:**

You will be presented for National 5 Chemistry. The grade awarded is based on the total marks achieved across all course assessment components.

### **ENTRY LEVEL: What do I need to do it?**

Candidates should have achieved the fourth curriculum level or the National 4 Chemistry course or equivalent qualifications prior to starting this course. Candidates may also progress from relevant biology, environmental science, physics or science courses.

### **COURSE CONTENT: What will I learn?**

Candidates gain an understanding of chemistry and develop this through a variety of approaches, including practical activities, investigations and problem solving. Candidates research topics, apply scientific skills and communicate information related to their findings, which develops skills of scientific literacy.

The course content includes the following areas of chemistry:

#### **Chemical changes and structure**

In this area, topics covered are: rates of reaction; atomic structure and bonding related to properties of materials; formulae and reacting quantities; acids and bases.

#### **Nature's chemistry**

In this area, topics covered are: homologous series; everyday consumer products; energy from fuels.

#### **Chemistry in society**

In this area, topics covered are: metals; plastics; fertilisers; nuclear chemistry; chemical analysis.

### **ASSESSMENT: How will I be assessed?**

The course assessment has two components.

Component 1: Question paper worth 100 marks lasting 2 hours and 30 minutes. This is completed as a closed book exam as part of the SQA exam diet.

Component 2: Assignment 20 marks scaled to 25. 8 hours, of which a maximum of 1 hour and 30 minutes is allowed for the report stage. The research stage must involve an experiment that allows measurements to be made. Candidates must

also gather data from the internet, books or journals to compare against their experimental results. The candidate's research may also involve gathering extracts from internet/literature sources to support their descriptions and/or explanations of the underlying chemistry. Candidates must produce a report on their research which is submitted to the SQA for marking.

**HOMEWORK:**

Regular homework contains numeracy, literacy and problem-solving tasks and aims to develop skills and consolidate knowledge and understanding. It may also include revision of class work, completion of unfinished work and opportunities to complete small projects at home on selected areas of the curriculum. You will be given the chance to present your findings to your peers.

**PROGRESSION IN THE SENIOR PHASE:**

Higher Chemistry or National 5 Laboratory Sciences.

**COSTS:**

Pupils may be asked for replacement costs for lost or broken equipment.