

## CHEMISTRY – NATIONAL 4

### What are the aims of this course?

The **National 4 Chemistry course** is designed for pupils who wish to gain an overview into the exciting world of atoms and chemicals.

### What are the recommended entry levels for this course?

For this course, potential pupils would be expected to have shown competence in their previous science studies.

### What content is included in this course?

The course is composed of three units of study including; **Chemical Changes and Structures, The Nature's Chemistry** and **Chemistry in Society**.

### What skills will I develop?

The main aims of this Course are to:

- develop and apply knowledge and understanding of chemistry
- develop an understanding of chemistry's role in scientific issues and relevant applications of chemistry in society and the environment
- develop scientific inquiry and investigative skills
- develop scientific analytical thinking skills in a chemistry context
- develop the use of technology, equipment and materials, safely, in practical scientific activities
- develop problem solving skills in a chemistry context
- use and understand scientific literacy, in everyday contexts, to communicate ideas and issues
- ♦ develop the knowledge and skills for more advanced learning in chemistry

### What learning and teaching approaches will I experience?

A range of learning and teaching approaches are used including individual work, group work and cooperative activities. There is an emphasis on **practical work**, experimental design and data analysis.

### How will I be assessed?

The course is assessed internally. Pupils must pass 3 knowledge based tests (including problem solving skills), complete a research task, investigation and added value unit.

SQA will provide rigorous external quality assurance, including external verification, to ensure assessment judgements are consistent and meet national standards.

### What are the homework requirements?

Pupils are set a minimum of **one homework per key area**. This could include written tasks, learning or consolidation of knowledge and understanding.

### What are the possible progression routes?

Achieving a **pass** at National 4 would allow progression to the **National 5** course.

### Certification anticipated in:

National 4 Chemistry is allocated 24 SCQF points at SCQF level 4.