Why Chemistry?
Chemistry is vital to everyday life and allows us to understand and shape the world in which we live. You will learn about the applications of chemistry in everyday contexts such as medicine, energy and industry, as well as its impact on the environment and sustainability. You will learn how to think creatively and independently, and analyse and solve problems.

Course Outline
You will learn about how we use the Earth's resources, the chemistry of everyday products and environmental analysis. You will find out how chemistry affects our environment and our everyday lives. This will help you to make your own decisions on contemporary issues where scientific knowledge is constantly developing.

CHEMISTRY HIGHER

The course has **three** compulsory units plus an **added value** unit that assesses your practical skills. The unit titles are the same as those for **National 5** but you will have to achieve a higher standard of work.

Chemical Changes and Structure
In this unit you will develop an understanding of :

- How reaction rates are controlled
- Periodicity
- Structure and bonding

Nature's Chemistry:
In this unit you will develop an understanding of :

- Esters, fats and oils
- Proteins
- The chemistry of cooking
- Oxidation of food
- Soaps, detergents and emulsions
- Fragrances
- Skin care

Chemistry in Society:
In this unit you will develop an understanding of :

- Getting the most from reactants
- Equilibrium
- Chemical energies
- Oxidising or reducing agents
- Chemical analysis

Researching Chemistry:
In this unit you will develop an understanding of:

- Research methodology
- Manipulation of experimental apparatus
- Problem solving in a practical setting
- Producing a scientifically concise report

ASSESSMENT

Your work will be assessed by your teacher on an ongoing basis and by the SQA at the end of the course

The course award it determined by:
Final exams (80%)
Paper 1 25 marks
Paper 2 95 marks

Assignment (20%)
An investigation written up in class and submitted to the SQA to be marked. 30marks

The Course assessment is graded A–D. Your grade will depend on the total marks gained from the assignment and final exams.

TURRIFF ACADEMY
READY • RESPECTFUL • SAFE

FACULTY OF SCIENCE

Biology Staff :
Mr Alan Stickle, Miss Rowan Cannell, Miss Sue Rodwell

Chemistry Staff:
Mr Stephen McNeil, Miss Kat Barnard, Mrs Maryann Blakeborough

Physics Staff:
Mrs Abi Gibbon, Mr Steven Dempsey

Career Areas:

careers in a chemistry-based discipline or related area, or in a wide range of other areas, such as oil and gas exploration, renewable energy development, engineering, technology, pharmaceuticals, environmental monitoring, forensics, research and development, management, civil service and education

Courses in Turriff Academy

National 4 Environmental Science
National 4 Chemistry
National 4 Physics
National 5 Biology
National 5 Chemistry
National 5 Physics
Higher Biology
Higher Chemistry
Higher Physics
Scientific Technologies NPA
Advanced Higher Biology
Advanced Higher Chemistry
Advanced Higher Physics

Useful websites to help you with your choices:
www.myworldofwork.co.uk
www.skillsdevelopmentscotland.co.uk

Further advice and information on these options is available from your subject teacher, guidance teacher and careers adviser.