

# CAREERS INFORMATION



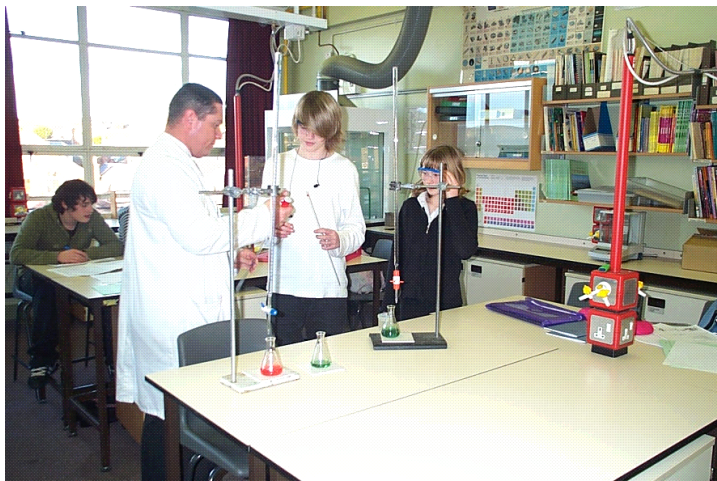
## Career Areas

- Animals, Land and Environment
- Hairdressing & Beauty / Beauty
- Health and Medicine
- Manufacturing Industries
- Science and Mathematics / Chemistry / Food Science & Technology

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

# OTHER INFORMATION

STAFF:- Mr C Dubbels and Miss K Barnard



# Science

# Chemistry Higher



TURRIFF ACADEMY

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# COURSE INFORMATION

## 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.

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 Unit:** 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

This unit will be completed in school and marked by the SQA

# ASSESSMENT

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

- Experimental write-up (Outcome 1)
- Assessments covering knowledge and skills (Outcome 2)
- Research assignment marked by the SQA (20 marks)
- Question paper set by the SQA (100 marks)

You must pass all the course units, including the practical assessment, and the written exam to be awarded the course qualification. The course assessment is graded A-D. Your grade will depend on the total mark for all the units in your course.

# PROGRESSION

Successful completion of this course may lead to:

Advanced Higher Chemistry

# FURTHER COURSES IN TURRIFF ACADEMY

In S6

Advanced Higher Chemistry

