



**Career Areas**

- Health care
- Manufacturing Industries
- Life Sciences
- Food Science & Technology
- Animals, Land and Environment
- Hairdressing & Beauty / Beauty
- Scientific technician

Useful websites to help you with your choices:

- [www.myworldofwork.co.uk](http://www.myworldofwork.co.uk)
- [www.skillsdevelopmentscotland.co.uk](http://www.skillsdevelopmentscotland.co.uk)
- [www.apprenticeship.scot](http://www.apprenticeship.scot)

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

**OTHER INFORMATION**

Science Staff:

All Science staff

**This course will require flexibility on the part of the candidate to help accommodate work placements**



**Faculty of Science**

**Scientific Technologies SCQF 6**



TURRIFF ACADEMY

Email: [turriff.aca@aberdeenshire.gov.uk](mailto:turriff.aca@aberdeenshire.gov.uk)

# COURSE INFORMATION

## Why a Foundation Apprenticeship?

Foundation Apprenticeships allow learners to gain vocational qualifications that combine sector specific skills alongside the knowledge that underpins these skills in a workplace setting while still at school.

## Why Scientific Technologies?

The group award title reflects the scientific nature of the award and is linked to the skills required to become competent to work in science-based industries.

Learners for the NPA Scientific Technologies group award will be able to work in a broad range of companies; hence the title of the award is generic enough to reflect the diversity of the science industry in Scotland.

The group award is designed to prepare learners for an appropriate level of employment in science areas such as; biological, biotechnology, chemical, environmental, food and drink, medical, oil and gas, pharmaceutical and renewable energy industries

The NPA Scientific Technologies group award was specifically developed as part of

## Course Outline

Scientific technologies has 4 Units taught in school:

### 1. Chemistry fundamentals

Describe and use the basic chemical principles associated with atomic structure, chemical formulae, acids and bases, the periodic table, and organic chemistry.

Perform practical experiments related to fundamental chemistry.

### 2. Mathematics for Science

The unit is intended for those learners who wish to gain the foundations of the Mathematics underpinning studies in all branches of science. The unit develops basic skills in calculation, algebra, graph reading and drawing.

### 3. Laboratory Safety

Demonstrate knowledge and understanding of common laboratory hazards.

Describe safety and security procedures in a specific laboratory.

Follow all safety procedures while carrying out an experiment in the laboratory.

### 4. Experimental Procedures: Science

Perform experimental procedures and record experimental results.

Process experimental results.

Plan, organise and complete a laboratory based project.

**Along with the above units, SVQ units, will be assessed as part of your work placement.**

You'll learn how to:

- Follow health and safety procedures for scientific or technical activities
- Carry out scientific or technical tests using manual equipment
- Prepare compounds and solutions for scientific or technical use

## ASSESSMENT

This course is assessed by a mixture of theory and practical assessments completed in school and on work placement.

# PROGRESSION

Successful completion of this course may lead to:

HNC/HND in Applied Sciences/Applied Biological Sciences/Applied Chemical Sciences or related area.

Modern Apprenticeship in Life Science and Related Science Industries

Technical Apprenticeship in Life Science and Related Science Industries

Employment in the science sector, perhaps as a laboratory assistant or a laboratory technician

## FURTHER COURSES IN TURRIFF ACADEMY

### In S6:

National 5 Biology  
National 5 Chemistry  
National 5 Physics

Higher Biology  
Higher Chemistry  
Higher Physics

Advanced Higher Biology  
Advanced Higher Chemistry  
Advanced Higher Physics