National 4 Science (Course Code: C765 74)

SCQF Level 4 (24 Credit Points)

Why study Science?

Science is vital to developments in medicine, industry, health and the environment, to name but a few. As a scientist you need to be good at solving problems and able to explain your work to other people. You will learn how to think in a scientific and analytical way.

The skills you learn in this course are useful in many careers ranging from medicine, manufacturing and agriculture to environmental health.

Career Pathways

To see what career areas this subject could lead to and the routes to get there, download and view these career pathways:

Animals, Land and Environment

Engineering

Hairdressing, Beauty and Wellbeing

Health and Medicine

Manufacturing Industries

Science and Maths

Sport

What do I need to get in?

The school or college will decide on the entry requirements for the course. You would normally have achieved one of the following:

- **National 3 Science**
- **National 3 Biology**
- **National 3 Chemistry**
- **National 3 Environmental Science**
- **National 3 Physics**

What will I study?

Science is a very practical subject and you will have the opportunity to carry out experiments and practical investigations. Science is central to our society. You will study a range of topics that demonstrate the applications

of science in everyday life. This will help you to make your own decisions on contemporary issues where scientific knowledge is constantly developing.

The course has **three** compulsory unit, plus an **added value** unit that assesses your practical skills.

Fragile Earth (6 SCQF credit points)

In this unit you will:

- choose to learn about two of the Earth's resources: energy, food, metals or water
- investigate how these resources are sourced, produced, and /or extracted, and about their uses and benefits
- learn about areas of conflict associated with these resources, and identify possible local or national solutions
- learn how science is involved in environmental issues.

Human Health (6 SCQF credit points)

In this unit you will:

- learn about factors that contribute to a healthy lifestyle through a personal, community-based and global approach
- learn how to measure physical fitness, how to investigate mental and social health issues
- research media reports of national and international health issues.

Applications of Science (6 SCQF credit points)

In this unit you will:

- explore science's contribution to communication technologies and the impact these have on society and the environment
- research the production and use of new materials
- learn how science helps us to understand risk and how it can be reduced in modern life.

Added Value Unit: Science Assignment (6 SCQF credit points)

In this unit you will:

- carry out an in-depth investigation on an unfamiliar and/or integrated context.

How will I be assessed?

Your teacher or tutor will assess your work on a regular basis throughout the course. Items of work might include:

- practical work – practical experiments
- written work – research assignments and reports
- projects

- class-based exams.

You must pass all units plus the added value unit to gain the course qualification.

Study Materials

What can I go on to next?

If you complete the course successfully, it may lead to:

- other qualifications in Science or relevant areas at SCQF Levels 5 or 6

Further study, training or employment in:

- Animals, Land and Environment
- Engineering
- Hairdressing, Beauty and Wellbeing
- Health and Medicine
- Manufacturing Industries
- Science and Mathematics
- Sport