National 4 Applications of Mathematics (Course Code: C844 74)

SCQF Level 4 (24 Credit Points)

Why study Applications of Mathematics?

Mathematics is important in everyday life, allowing us to make sense of the world and manage our lives. You will learn how to model real-life situations and make connections and informed predictions.

You will develop the skills to interpret and analyse information, simplify and solve problems, assess risk, and make informed decisions. These skills will make you valuable to future employers.

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

Buying, Selling and Related Work

Computing and ICT

Construction

Engineering

Finance

Garage Services

Health and Medicine

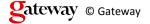Science and Maths

Teaching and Classroom Support

Transport and Distribution

What do I need to get in?

Entry is at the discretion of the school or college but you would normally have achieved:

- **National 3 Applications of Mathematics**

What will I study?

As well as being important in its own right, Mathematics has applications in many other subjects, particularly in science and engineering. This course will help you to acquire mathematical and numerical skills and apply them in a variety of real-life situations. You will develop skills in logical reasoning, analysis, problem solving, creativity, and the ability to think in abstract ways. The course includes the freestanding Unit in Numeracy at SCQF level 4.

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

Applications of Mathematics: Managing Finance and Statistics (6 SCQF credit points)

In this unit you will:

* learn how to use reasoning and financial skills to manage finance and statistics in real-life situations
* learn how to budget, and how to organise and present data.

Applications of Mathematics: Geometry and Measures (6 SCQF credit points)

In this unit you will:

* learn how to apply reasoning skills and geometric skills in real-life situations
* learn how to use mathematical reasoning to interpret and use shape, space and measures.

Numeracy (6 SCQF credit points)

In this unit you will:

* develop your numerical and information-handling skills to solve real-life problems involving number, money, time and measurement
* learn how to interpret graphical data and use probability to solve real-life problems involving money, time and measurement.

Added Value Unit: Applications of Mathematics Test (6 SCQF credit points)
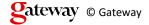
In this unit you will:

* complete a test that assesses your ability to organise and plan aspects of personal life, the workplace and the wider world using mathematical ideas and strategies
* use reasoning to apply and integrate financial, measurement, geometric and statistical skills in real-life contexts
* be assessed on your ability to use your numerical skills without the aid of a calculator.

How will I be assessed?

Course Assessment (6 SCQF credit points)

Your work will be assessed by your teacher on an ongoing basis throughout the course. Items of work might include:

- practical work - handling money
- written work - spreadsheets and worksheets
- projects
- class-based exams.

You must pass all the units including the test to gain the qualification.

Study Materials

[BBC Bitesize National 4 Applications of Maths](#)

What can I go on to next?

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

- **National 5 Applications of Mathematics**

Further study, training or employment in:

- Animals, Land and Environment
- Buying, Selling and Related Work
- Computing and ICT
- Construction
- Engineering
- Finance
- Garage Services
- Health and Medicine
- Science and Mathematics
- Teaching and Classroom Support
- Transport and Distribution