National 3 Applications of Mathematics (Course Code: C844 73)

SCQF Level 3 (18 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?

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

- **National 2 Lifeskills Mathematics**

What will I study?

As well as being an important subject in its own right, Mathematics is vital for 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 thinking skills and gain experience in making informed decisions. The course includes the freestanding Unit in Numeracy at SCQF level 3.

The course has **three** compulsory units.

Applications of Mathematics: Manage Money and Data (6 SCQF credit points)

In this unit you will:

- learn how to manage money and data in real-life situations
- build on your mathematical and numerical skills to learn about the kinds of things that affect income and expenditure, budgeting and saving
- learn how to organise, present and interpret data.

Applications of Mathematics: Shape, Space and Measures (6 SCQF credit points)

In this unit you will:

- apply your skills, knowledge and understanding of shape, space and measures in real-life situations
- build on your mathematical and numerical skills by using measures and elementary geometry to tackle real-life situations.

Numeracy (6 SCQF credit points)

In this unit you will:

- develop your numerical and information handling skills to solve simple, real-life problems involving number, money, time and measurement
- learn how to use your knowledge of number processes, information handling and probability to make informed decisions.

How will I be assessed?

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 to gain the qualification.

Study Materials

What can I go on to next?

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

- **National 4 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