



Course Choice Information - Mathematics

Nat 4

Course Information & Content

This course enables learners to acquire and apply operational skills necessary for developing mathematical ideas through symbolic representation and diagrams. They will select and apply mathematical techniques and will develop both their understanding of the interdependencies within mathematics and their reasoning skills.

Course Specification

There are 4 Mandatory Components of Mathematics National 4:

Expressions and Formulae: The general aim of this Unit is to develop skills linked to straightforward mathematical expressions and formulae. These include the manipulation of abstract terms, the simplification of expressions and the evaluation of formulae. The Outcomes cover aspects of algebra, geometry, statistics and reasoning.

Relationships: The general aim of this Unit is to develop skills linked to straightforward mathematical relationships. These include solving equations, understanding graphs and working with trigonometric ratios. The Outcomes cover aspects of algebra, geometry, trigonometry, statistics and reasoning.

Numeracy: The general aim of this Unit is to develop learners' numerical and information handling skills to solve straightforward, real-life problems involving number, money, time and measurement. Learners will also interpret graphical data and use their knowledge and understanding of probability to identify solutions to straightforward real-life problems involving money, time and measurement. Learners will use their solutions to make and explain decisions.

Mathematics Test: This is the Added Value Unit of the course.

The general aim of this Unit is to enable the learner to provide evidence of added value for the National 4 Mathematics Course through the successful completion of a test which will allow the learner to demonstrate breadth and challenge.

Assessment

All the above units are internally assessed on a pass/fail basis and the overall Course Award is dependent on learners passing all of the four Mandatory units.

Homework

Consolidation of the learning in class will take place through homework where appropriate set by the class teacher.

Progression

National 5 Mathematics | National 5 Applications of Mathematics | Specific College courses/employment prospects

Career Options

Accountant | Actuary | Aeronautical Engineer | Air Traffic Control | Architect | Bookmaker | Civil/Diplomatic Service Worker | Economist | Engineer | Finance Worker | Geologist/Geophysicist | Insurance Risk Surveyor | Investment Banker | Management Consultant | Radiographer | Pilot/Pilot Technician | Software Engineer and Development | Statistician | Stockbroker | Surveyor | System Analyst | Teacher

[Further Information - SQA](#)

