



# Course Choice Information - Mathematics

## Nat 5

### 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 their understanding of the interdependencies within mathematics. In addition, learners will develop mathematical reasoning skills and will gain experience in making informed decisions. The course will include the freestanding unit in Numeracy at SCQF level 5.

There are 3 units within the National 5 Mathematics Course:

**Expressions and Formulae:** The general aim of this unit is to develop skills linked to 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 number, algebra, geometry and reasoning.

**Relationships:** The general aim of this unit is to develop skills linked to mathematical relationships. These include solving and manipulating equations, working with graphs and carrying out calculations on the lengths and angles of shapes. The outcomes cover aspects of algebra, geometry, trigonometry and reasoning.

**Applications:** The general aim of this unit is to develop skills linked to applications of mathematics. These include using trigonometry, geometry, number processes and statistics within real-life contexts.

### Assessment

An external examination comprising two papers. The first of the two papers will be a non-calculator paper. For **S4 pupils only** a decision may be taken to present pupils for N5 Applications of Mathematics **alongside or instead of** a National 5 Mathematics qualification; this is dependent on the progress and achievement of the individual pupil

### Homework

Regular homework will be set by the class teacher. Students of National 5 Mathematics will also be expected to complete their own private study and revision using past papers and other materials provided.

### Progression

Higher 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](#)

