

National 5 Applications of Mathematics

Course Rationale

This course explores the applications of mathematical techniques and skills in everyday situations including financial matters, statistics and measurement. The skills, knowledge and understanding you will learn on this course will support learning in other curriculum areas such as technology, health and wellbeing, science and social science. This is a challenging course and requires the ability to study independently.

Course Content and Assessment

The course comprises **three** areas of study.

- **Managing Finance and Statistics** - You will: develop your reasoning and financial skills to manage finance and statistics in real-life situations learn how to analyse financial positions, budget, and organise and present data to justify solutions and/or draw conclusions.
- **Geometry and Measures** - You will: develop you reasoning and geometric skills in real-life situations learn how to analyse and use geometry and measures to identify and justify solutions to real-life problems.
- **Numeracy** - You will: develop your numerical and information-handling skills to solve real-life problems involving number, money, time and measurement interpret graphical data and use your knowledge of probability to solve real-life problems involving money, time and measurement. learn how to use your solutions to make and justify decisions.

Conditions of award: -

The course assessment has **two** components **totalling 110 marks**:

- Component 1: question paper 1 (non-calculator) – worth 45 marks
- Component 2: question paper 2 – worth 65 marks.

The question papers will be set and marked externally by the Scottish Qualifications Authority (SQA).

The grade awarded is based on the total marks achieved across all course assessment components.

The course assessment is graded A–D

Course Assessments Structure

Learners could be given short or extended response tests online or on paper which covers the Outcomes and Assessment Standards for each Unit. Where possible all questions should be set within realistic and relevant contexts for the learners and could include a mix of short and extended response questions.

Progression

Pupils from here should consider doing Higher Applications of Maths (If available) or National 5 Maths. Mathematics has applications in many subject areas, and skills developed in this Course could support progression in other curriculum areas. These skills can also support progression into Skills for Work Courses, National Progression Awards, National Certificate Group Awards, and employment

Career Pathways - Buying, Selling and Related Work, Computing and ICT, Engineering, Finance, Science and Maths, Teaching and Classroom Support, Transport and Distribution