

What will I study?

Mathematical Modelling / Statistics and Probability / Finance / Planning and Decision Making

The Higher Application of Mathematics course develops, deepens and extends the operational and reasoning skills necessary for solving problems. Through real-life contexts, learners will acquire and apply mathematical and statistical skills directly relevant to life and work, and learn about how mathematics affects the world they live in. Learners will analyse complex real-life problems and gain experience in making and justifying decisions and drawing conclusions.

What skills will I develop?

- Analyse complex real-life problems involving mathematics
- Select and apply skills in numeracy, finance, statistics and probability, data modelling, and planning and decision making
- Communicate mathematical information with complex features
- Use mathematical reasoning skills to extract and interpret information and draw conclusions or justify decisions
- Use software where appropriate, for example to model and analyse statistical, mathematical and financial problems

How will I be assessed?

Candidates achieving a sufficient standard in internal assessments will go on to sit an externally assessed SQA Question Paper (2hrs 30mins) worth 60 Marks. Candidates will also be required to submit a Project (8hrs) worth 30 Marks which will also be assessed externally by the SQA.

What can I do after Higher Applications of Mathematics?

S6 Advanced Higher Statistics

As the content of Higher Application of Mathematics is applicable in many other subject areas, it is a valuable Higher for all further education applications.

Possible Careers

A word cloud of career paths related to Higher Applications of Mathematics. The words are arranged in a roughly circular pattern. The careers listed include: Financial Manager, Statistician, Civil Service, Fast Streamer, Financial Trader, Chartered Accountant, Operational Researcher, Meteorologist, Insurance Underwriter, System Developer, Actuary, Quantity Surveyor, Secondary School Teacher, Investment analyst, and Data Analyst.

Information:

[SQA Higher Applications of Mathematics](#)