

HIGHER APPLICATIONS OF MATHEMATICS

A guide for parents and pupils

WHAT IS HIGHER APPLICATIONS OF MATHS AND WHO IS IT FOR?

This course will equip learners with sought after mathematical, statistical and financial skills. It is suitable for a wide range of learners, including those who wish to progress to further learning and employment in non-STEM areas. Several parts of the course involve the use of computers & specialist software.

This subject has been specifically created at the request of Colleges and Universities. It offers the skills needed to excel in the following subjects: Psychology, Social Sciences, Humanities, Sports Sciences, Business Management, Accountancy, Applied Sciences, Health Sciences, Government Research, Biomedical and Health Services, Insurance.

It is also a good additional Higher for those looking to study a STEM Subject.

WHAT DO PUPILS GAIN FROM THIS COURSE?

- Knowledge & skills in statistics, mathematical modelling, finance and project planning which are relevant to a wide range of careers and courses.
- Skills in using technology to manipulate and model mathematical, statistical, and financial information.
- Skills in analysing, interpreting and presenting data and numerical information.
- Skills in evaluating numerical information critically.

ASSESSMENT INFO:

- The course will be assessed through a question paper (final exam) and a project, which will be marked by SQA.
- The question paper makes up 73% of the total assessment mark and the project makes up 27%.
- Normal SQA grades apply (A-D).

RECOMMENDED PRIOR ATTAINMENT:

This course builds upon the skills covered at National 5 level. This course is recommended:

- for pupils that have achieved an A/B in National 5 Applications of Maths.
- as a potential route for pupils that achieve a C in National 5 Mathematics.

VIDEO: WHY STUDY HIGHER APPLICATIONS?



UNIT INFORMATION:

Statistics & Probability

Develop and apply a range of statistical techniques. An element of this is produced through a project that forms part of the overall grade for the course. Specialist software is used.

Finance

Build upon previously learned financial terms, applying them to the purposes and principles of borrowing money, saving money and taxation. Some of this unit uses Excel Spreadsheets.

Planning & Decision Making

Using information to effectively plan situations, using critical paths and risk to make informed decisions.