Winchburgh Academy
Higher Applications of Mathematics

Course Overview

The Higher Applications of Mathematics course focuses on developing learners' mathematical thinking and problem-solving skills through real-life contexts. It emphasises reasoning, modelling, analysing data, and applying mathematics to practical situations in finance, statistics, planning, and risk assessment. Candidates should have achieved either National 5 Mathematics or National 5 Applications of Mathematics prior to starting this course.

Skills Development

- Mathematical reasoning and decision-making
- Interpreting and analysing real-life data
- Applying statistical methods
- Financial planning and modelling
- Understanding risk and probability
- Communicating mathematical ideas clearly

Course Units

The Higher Applications of Mathematics course includes the following units – Finance, Statistics and Probability, Mathematical Modelling and Planning and Decision Making.

Assessment Overview

The Higher Applications of Mathematics course is assessed through a final examination and a project. The question paper gives candidates an opportunity to apply an understanding of the underlying processes involved in mathematical modelling, statistics, finance, planning and decision making, numerical skills, and reasoning skills. For the project, candidates research and report on a topic that allows them to apply statistical skills and knowledge in Applications of Mathematics at a level appropriate to Higher.

Note that achievement of this course gives automatic certification of the following Core Skill: Level 6 Numeracy