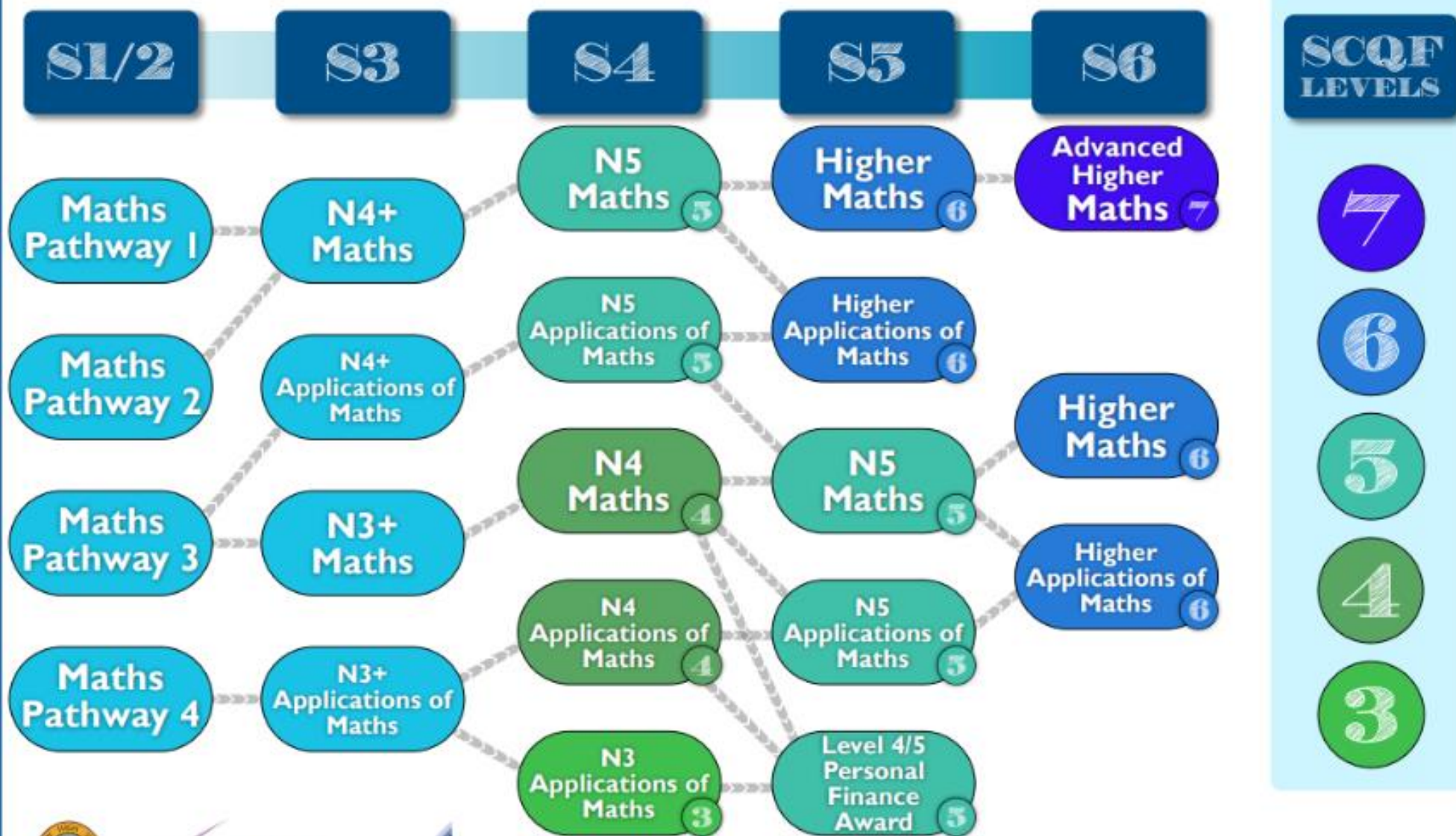


The background of the slide features the crest of the University of Cambridge. It consists of a circular emblem with a gold border containing the Latin motto 'ALMA MATER · KIRKBY · LABOR · TOCC'. Inside the circle is a grey stone building with three towers and a central red door. The text 'S4/5 Subject Choices' is centered over the building.

S4/5 Subject Choices

Mathematics

Mathematics



Applications of Maths – N5 & Higher



Entry Requirements – Qualifications, Skills and Knowledge

National 5 - Learners who have gained a qualification in National 4 Mathematics/Applications of Maths

Higher - Learners who have gained a qualification in National 5 Applications of Maths/Mathematics or Higher Maths who have an interest in the applying Maths

Course Content

National 5 - Consists of 3 units: Numeracy, Geometry & Measure and Finance & Statistics

Higher - Skills and knowledge covered include Mathematical Modelling, Finance, Statistics & Probability and Planning & Decision Making.

Applications of Maths – N5 & Higher



Course Assessments

National 5 - SQA Non-calculator Paper (35 marks)
SQA Calculator Paper (55 marks)

Higher - SQA Question Paper (65 marks)
Statistics Project (30 marks) – completed in class

Learning Activities & Homework

Class based activities with opportunity for interdisciplinary learning, cross-curricular links, investigation and problem solving, collaborative working and e-learning.

At Higher the use of Excel and R-Studio is explored and used to solve mathematical problems in context.

Regular, formal homework will be set by the class teacher with the expectation that pupils will dedicate 1-2 hours of personal study each week.

Applications of Maths – N5 & Higher



Wider Skills Development

The Applications of Mathematics Course focuses on developing the mathematical and analytical skills required in society and for the future workforce. The Course develops candidates' mathematical literacy, problem solving skills and reasoning skills as they apply mathematics in real-life contexts. The skills, knowledge and understanding in the course supports learning and further study and builds confidence in a wide range of curricular areas, such as humanities, social sciences, healthcare, and business.

Progression & Career Opportunities

National 5 – Progression to Higher Applications of Maths

Please note that this course not a suitable pathway to Higher Mathematics

Higher - A sound grasp of Maths is useful in most jobs, but some popular career paths include:
Accountant, Data Analyst, Statistician, Teacher, Banking & Financial Services, Psychologist, Retail, Business...and many more!

Mathematics – N5, Higher & Advanced Higher



Entry Requirements – Qualifications, Skills and Knowledge

- National 5 - Learners who have gained a qualification in National 4 Mathematics or National 5 Applications of Maths
- Higher - Learners who have gained a qualification in National 5 Mathematics
- Advanced Higher – Learners who have gained a qualification in Higher Mathematics preferable at grades A/B

Course Content

- National 5 - Consists of 3 areas: Expressions & Formulae, Relationships and Applications
- Higher - Consists of 3 areas: Expressions and Functions, Relationships & Calculus, Applications
- Advanced Higher - Calculus, Algebra, Proof & Number Theory, Matrices, Vectors and Complex Numbers

Mathematics – N5, Higher & Advanced Higher



Course Assessments

National 5 -	SQA Non-calculator Paper (40 marks)	SQA Calculator Paper (40 marks)
Higher -	SQA Non-calculator Paper (55 marks)	SQA Calculator Paper (65 marks)
Advanced Higher -	SQA Non-calculator Paper (35 marks)	SQA Calculator Paper (80 marks)

Learning Activities & Homework

Class based activities with opportunity for interdisciplinary learning, cross-curricular links, investigation and problem solving, collaborative working and e-learning.

Regular, formal homework will be set by the class teacher with the expectation that pupils will dedicate 1-2 hours of personal study each week.

Mathematics – N5, Higher & Advanced Higher



Wider Skills Development

Mathematics engages learners of all ages, interests and abilities. Learning mathematics develops logical reasoning, analysis, problem-solving skills, creativity, and the ability to think in abstract ways. The course develops important mathematical techniques which are critical to successful progression beyond N5/Higher/AH level in Mathematics and many other curriculum areas. The skills, knowledge and understanding in the course also support learning in technology, health and wellbeing, science, and social studies.

Progression & Career Opportunities

National 5 – Progression to Higher Mathematics or Higher Applications of Maths

Higher - Progressions onto Advanced Higher Mathematics.

All - A sound grasp of Maths is useful in most jobs, but some popular career paths include: Accountant, Actuary, Data Analyst, Statistician, Engineering, Science, Teacher, Banking & Financial Services, Psychologist, Retail, Business...and many more!

Personal Finance – Level 4 & 5



Entry Requirements – Qualifications, Skills and Knowledge

No specific entry requirements needed however, an interest in personal finance is desired.

This course is most suitable for those progressing from National 3 or 4 Mathematics/Applications of Maths.

Course Content

This course consists of two units:

Understanding Money - This unit focuses on opportunities to explore real world financial encounters. It will help learners gain a better understanding of household budgets, earnings and taxes, bank accounts and some financial risks. The unit will also enable learners to explore the impact of changes in the rate of inflation, currency exchange interest rates.

Money Management - This unit focuses on managing your money. It will help learners prepare and understand the importance of budgeting and the costs associated with living independently. They will investigate the costs and risks involved with different borrowing products, the methods of reducing risk through insurance and pension contributions and costs involved in buying and investigate the selling costs involved with borrowing money.

Personal Finance – Level 4 & 5



Course Assessments

All assessments are carried out online using SQA Solar and are either multiple-choice or multiple-response questions and will be broken down into manageable tasks.

Learning Activities & Homework

Class based activities with opportunity to undertake online research relating to financial products and services, price comparisons and decision making. Lessons will involve class discussion around financial topics.

Homework will be set by the teacher and will be mainly focussed around revising the skills required to achieve each task.

Personal Finance – Level 4 & 5



Wider Skills Development

This course will develop knowledge and skills to cope confidently and effectively with the types of financial matters individuals are likely to encounter. From student loans, to pensions, the awards will prepare learners for financial decision making and managing personal finances throughout their lives.

Progression & Career Opportunities

Learners can progress through the levels of Personal Finance Awards, from level 4 up to level 6.

The award can be used to offer a progression pathway to other qualifications and could provide a good grounding for those wishing to follow a career in financial services or related sectors.