

Mathematics A-level Pearson/Edexcel Exam Board



Why Study Mathematics?

Mathematics is challenging, rewarding and fun. It is both logical and creative. Students who study mathematics have a variety of opportunities. Mathematics and Further Mathematics are versatile qualifications, well-respected by employers and are both “facilitating” subjects for entry to higher education. Careers for men and women with good mathematics skills and qualifications are not only well paid, but they are also often interesting and rewarding. People who have studied mathematics are in the fortunate position of having an excellent choice of career.

The mathematical skills you learn in A level Mathematics are of great benefit in other A level subjects such as physics, chemistry, biology, computing, geography, psychology, economics and business studies.

A level Mathematics is an interesting and challenging course which extends the methods you learned at GCSE and includes applications of mathematics, including statistics and mechanics.

Assessment Structure

100% external assessment

The A-level material consists of pure maths topics: proof, algebra and functions; co-ordinate geometry; sequences and series; advanced trigonometry; exponentials and logarithms; differentiation; integration and vectors.

The compulsory applied mathematics topics are: statistical sampling; data presentation and interpretation; probability; statistical distributions; statistical hypothesis testing; kinematics and Forces and Newton’s Laws.

This course is assessed by 3 x 2 hour examinations in May/June of Year 2. This results in the full A level qualification.



Possible Career Pathways:

Career opportunities are unlimited for mathematics students:

- Accountant
- Actuary
- Computer Programmer
- Doctor
- Engineer
- Investment Manager
- Lawyer
- Numerical analyst
- Statistician
- Teacher
- Market Researcher
- Systems Analyst
- Banking
- Space/Aircraft Industry

Advised Entry Requirements:

GCSE Pass in Maths Grade 7-9.

In exceptional circumstances students who obtain a 6 will be considered with a letter of recommendation from their current maths teacher.

Specification Link

<https://qualifications.pearson.com/en/qualifications/edexcel-a-levels/mathematics-2017.html>