

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

## Why Mathematics?

Maths is a dynamic, exciting and relevant subject which has played a significant role in the progress of the human species, for example, in our understanding the movement of the planets; advancements in engineering; establishment and growth of economies and our understanding of human behaviour.

A level Maths includes the study of Pure Maths and the application of mathematics to the physical world through Statistics and Mechanics. The course develops strength and confidence in the application of algebraic and other mathematical skills and helps you to solve real life problems using logical mathematical argument. During the course, you will solve a variety of real-life problems such as how large a population will be, what forces should be applied to an object, whether an electrical component is likely to work and whether a medical procedure is effective. You will also engage in solving complex abstract problems.

## Assessment

33.3% - Paper 1 - Pure Mathematics 1  
33.3% - Paper 2 - Pure Mathematics 2  
33.3% - Paper 3 - Statistics and Mechanics

## Recommended Reading

Edexcel Pure Mathematics and 100% Proof - The Why of Maths by J Hope

CGP A level Mathematics Revision Guide

<https://www.mymaths.co.uk>

<https://mathsgenie.co.uk>

## Recommended Entry Requirements

Grade 7 GCSE Mathematics

Grade 6 GCSE Physics or Grade 6-6 GCSE Combined Science

## Future Pathways

On average, someone with A level Maths will earn 11% more over their lifetime than someone without it. Strength in Maths and the handling of data opens many doors due to its breadth of application in the real world.

University degrees, apprenticeships and careers in Accounting, Finance, Economics, Law, Engineering, the Sciences, Medicine, Computer Programming, Big Data handling, Monitoring and Evaluation, Design and Construction, Games Development and more.

## Complementary A Levels

Biology, Chemistry, Physics, Business, Geography, Psychology.

## Extra & Super Curricular

Entry to the National School Maths Challenge; competing with over 400 schools.

Lunchtime workshops

*“The maths teachers really helped me to achieve GCSE success and so I know that my A Level is in safe hands with them.”*