



## CWS SIXTH FORM COURSE BOOKLET INFORMATION

SUBJECT: A Level Mathematics

EXAM BOARD: Edexcel

COURSE OUTLINE:

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

A Level Mathematics enables students to extend their knowledge and range of mathematical skills, to understand mathematics in a way that promotes confidence, fosters enjoyment and provides a strong foundation for progress to further study. The course is comprised of Pure Mathematics (4/6), Statistics (1/6) and Mechanics (1/6), all of which can be built upon through A Level Further Mathematics and Undergraduate study.

Students who would benefit most from studying this qualification are likely to have a minimum of Grade 7 in GCSE Mathematics. It is important that students have the drive and desire to understand the subject. A Level Mathematics is generally a good complement with studying courses such as Physics, Chemistry, Computer Science and Economics.

### EXAMINATION CRITERIA

The Pearson Edexcel Level 3 Advanced GCE in Mathematics consists of 3 externally-examined papers. Students must complete all assessment at the end of Year 13 (in May/June 2022).

3 x 2-hour written examination worth 100 marks (1/3 of the qualification). [calculator allowed]

### POTENTIAL CAREER PATHS IN THIS FIELD

<https://www.mathscareers.org.uk/16-19/>

Quantitative skills, problem solving and logical thinking are all highly valued, and this course can prepare students for employment in a wide variety of occupations in the public and private sectors.

Maths Teacher

Maths Tutor

Academia – Maths Lecturer or Researcher

Engineer

Scientist

Actuary

Accountant

Financier

Investment broker

Consultant

Economist

Data Analyst

IT

Computer Programmer

App/Games designer

Cryptographer

Cybersecurity

Epidemiologist

Business

Commerce

Architect