

A Level Mathematics in Year 12

In year 12, students will study the following areas of mathematics

- Pure mathematics
- Statistics
- Mechanics

Pure Mathematics

Content overview

Proof,
Algebra and functions,
Coordinate geometry in the (x, y) plane;
Sequences and series;
Trigonometry;
Exponentials and logarithms;
Differentiation;
Integration;
Vectors.

Statistics and Mechanics

Content overview

Statistics:

Statistical sampling,
Data presentation and interpretation,
Probability,
Statistical distributions,
Statistical hypothesis testing.

Mechanics:

Quantities and units in mechanics,
Kinematics,
Forces and Newton's laws.

N.B. Pupils will require the new Casio FX-991EX Classwiz calculator in order to be able to do this course. These calculators will not be supplied by the school.

Year 12 Internal UCAS Exam Week

Pure Mathematics

- 2 hours in length
- 100 marks
- 62.5% of the total assessment

Statistics and mechanics

- 1 hour 15 min. in length
- 60 marks
- 37.5% of the total assessment

Specification and Examination Board:

Mathematics: 9MA0

Examination Board: Edexcel

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

