



# Mathematics and Further Mathematics



## Overview

Mathematics is a stimulating and challenging course that increases knowledge and understanding of mathematical techniques and applications while developing key employability skills, such as problem-solving, logical reasoning, communication and resilience.

These courses require commitment and hard work from the outset. Homework and assignments will be given on a regular basis, and high standards in the quality of work and in meeting deadlines will be expected.

NOTE: A Casio FX991CW 'ClassWiz' calculator will be required to study A level Mathematics.

## Assessment

Mathematics A Level – two year course	
<b>Paper 1: Pure Maths</b> <ul style="list-style-type: none"> <li>Students must answer all questions.</li> <li>Calculators can be used in the assessment</li> </ul>	Written exam: 2 hours 33.33% of the A level 100 marks
<b>Paper 2: Pure Maths 2</b> All the content of the specification for Paper 1 is assumed knowledge for Paper 2 and may also be tested within parts of questions. <ul style="list-style-type: none"> <li>Students must answer all questions.</li> <li>Calculators can be used in the assessment.</li> </ul>	Written exam: 2 hours 33.33% of the A level 100 marks
<b>Paper 3: Statistics and Mechanics</b> <ul style="list-style-type: none"> <li>The assessment comprises two sections: Section A – Statistics and Section B – Mechanics. Each section is 50 marks.</li> <li>Students must answer all questions.</li> <li>Calculators can be used in the assessment.</li> </ul>	Written exam: 2 hours 33.33% of the A level 100 marks

Further Mathematics A Level - two year course	
<b>Paper 1: Core Pure Maths 1</b>	<b>written paper: 1.5 hrs</b> 25% of the A level, 75 marks
<b>Paper 2: Core Pure Maths 2</b>	<b>written paper: 1.5 hrs</b> 25% of the A level, 75 marks
<b>Paper 3: Further Maths Option 1</b>	<b>written paper: 1.5 hrs</b> 25% of the A level, 75 marks
<b>Paper 4: Further Maths Option 2</b>	<b>written paper: 1.5 hrs</b> 25% of the A level, 75 marks

## Progression and Career Opportunities

All Mathematics and Engineering courses and most Science courses require A level Mathematics. Most university courses in non-linguistic subjects now include one or two modules in Statistics, for which Mathematics can help to provide a sound basis. Some non-mathematical technical subjects (eg Computing/Business Studies) will also require one or two mathematical modules (extending beyond GCSE Higher Tier) for which Pure Maths can also help to provide a useful basis.

Exam Board



Specification

L3 Advanced GCE in Mathematics (9MA0)

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

## Subject Specific Entry Requirements

An ideal candidate has at least a grade 6 at Higher Tier GCSE Maths. A minimum of grade 7 for Further Maths.

**“I found mechanics challenging at first but with support I understood it and enjoyed solving the problems. There is a huge sense of achievement and satisfaction”**

**Year 13 student**