Pershore Sixth Form

A Level Mathematics

Some of this year's Senior Maths Challenge participants, who scored amongst the highest performers in the country. They achieved 1 Gold, 5 Silver and 7 Bronze certificates, and our Gold winner qualified for the follow-on Senior Kangaroo round.

2025 can be written as a difference of two squares:

$2025 = 53^2 - 28^2$

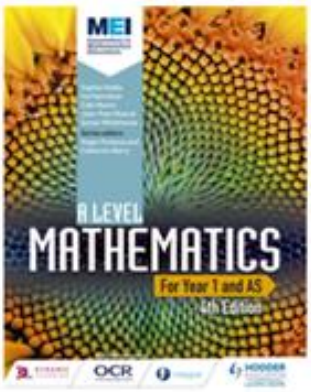
What about 2026?

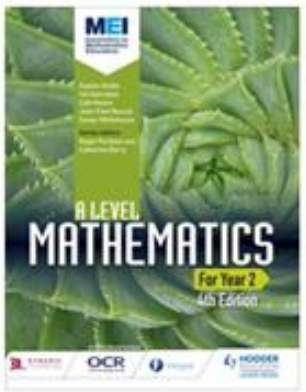
Average speed not 120 mph!

A racing car does its first lap at an average speed of 118 mph and its second lap at an average speed of 122 mph. What is the average speed for the two laps?

Lottery tickets

Why are there 45057474 different selections of Lottery numbers?





Introducing A Level Mathematics

Why should you study A Level Maths?

- Interesting, challenging & rewarding
- Supports the mathematical content in other A Levels
- Basis for further study beyond A Levels
- Versatile, well respected by employers and in demand
- Supports the mathematical skills in employment
- Transferable skills that employers desire
  - logical, analytical and strategic thinking skills
  - communicating with clarity
  - problem-solving
  - linking ideas
  - finding patterns
  - analysing data
  - modelling real-life problems

Teaching & Learning

Why should you study Maths at Pershore?

- 9 hours of specialist teaching plus an allocated assessment hour (Period 10) per fortnight
- Excellent A Level results and outstanding progress
- Value added score of +0.51 (students achieved over half a grade above expected)
- Highly experienced and dedicated A Level specialists
- Small class sizes
- High quality support and excellent teacher insight into strengths and weaknesses
- Structured approach to homework to consolidate learning and check understanding
- Structured approach to assessment tasks to ensure regular revision and practice
- Regular, detailed written and verbal feedback
- Teachers readily available for ongoing face-to-face support
- Access to the Integral website – extensive revision resources and support material
- Access to free Advanced Maths Support Programme courses
- Opportunity to enter the national UKMT Senior Maths Challenge and compete against thousands of other students

integral®

Advanced Mathematics Support Programme®

A Level Assessment

You will be studying OCR (B) MEI A Level Mathematics

There are 3 units of work to be taught over 2 years: Pure Maths, Statistics and Mechanics

Students will sit 3 exams at the end of Year 13, each 2 hours in length, with details as follows:

Component 1: Pure + Mechanics (36.4%)

Component 2: Pure + Statistics (36.4%)

Component 3: Pure + Comprehension (27.3%)

There will be greater reliance on technology with the use of pre-released large data sets and the use of calculators for statistical distribution data.

During the course, we will assess your progress through the use of:

- two written homework assignments per week with personalised feedback
- one assessment per fortnight in exam conditions on a specific unit of work
- one assessment per half term in exam conditions on a set of units, including formal mock exams

Subject combinations

A Level Mathematics can be studied with a wide range of other subjects, and it will be of great benefit in subjects such as:

- *Physics*
- *Biology*
- *Chemistry*
- *Computing*
- *Geography*
- *Psychology*
- *Economics*
- *Business Studies*

Some students also study Mathematics as a contrast to subjects such as Art or Drama.

Progression Routes

Mathematics provides excellent choices for an interesting and rewarding career, such as Science, Engineering, Manufacturing, Business and Finance amongst many others.

A Level Mathematics is a subject requirement for many university courses, and many courses involve mathematical skills and content far beyond GCSE.

Studying Mathematics at A Level will ensure you are better prepared to make the transition to higher education.

Entry and skill requirements

What are the entry requirements for A Level Mathematics?

Grade 7 or higher at GCSE

Mathematics is a demanding subject which moves at a faster pace to GCSE.

We must be sure that students are suitably equipped with the appropriate skills required, both to access the level of Maths they will meet over the two years, and to cope with the challenges this brings.

Resources: The course requires two textbooks, one covering the entire Year 1 course content, and a further textbook covering the Year 2 content. Both are published by Hodder Education. Students also need an advanced calculator – we suggest a Casio fx-991CW.

What do our students think?

We asked our students to tell us what they thought about studying A Level Mathematics and Further Mathematics. Here are some of the comments they made:

"Learning Maths really helps with Physics, Biology and Chemistry"

"You get lots of attention from the teachers"

"You get lots of active feedback"

"The teachers know your strengths and weaknesses"

"You learn transferable skills"

"Maths is the foundation of everything"

"Interesting"

"Difficult, but fun!"

"Maths in the morning always cheers me up!"

"Further Maths makes understanding algorithms in Computer Science easier"

"#lovemaths"

Contact us

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