



Mathematics

Year: 10

"The only way to learn mathematics is to do mathematics."

Paul Halmos

Course content

Throughout year 10 pupils will continue on their GCSE course building up specialist knowledge of mathematical topics including key methodology and processes to secure their ability to apply their understanding to GCSE style problems. As part of the spiral curriculum model pupils will have the opportunity to extend their knowledge across four main areas of mathematics: algebra, data and probability, shape, space and measure and number.

Skills developed

- Fluency
- Identifying misconceptions
- Reasoning
- Applying mathematical skills
- Problem solving
- Multi-step problem approaches
- Exam technique

For more information

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Topics covered

- Manipulate fractional indices
- Solve problems involving direct and inverse proportion
- Convert between recurring decimals and fractions
- Solve equations using iterative methods
- Solve quadratic equations by factorising
- Link graphs of quadratic functions to related equations
- Interpret a gradient as a rate of change
- Recognise and use the equation of a circle with centre at the origin
- Apply trigonometry in two dimensions
- Calculate volumes of spheres, cones and pyramids
- Understand and use vectors

