



Mathematics

Year: 9

“Mathematics is the most beautiful and most powerful creation of the human spirit”

Stefan Banach

In year 9 students will begin their GCSE course. The course enables them to develop their understanding of new mathematical topics and provides them with opportunities to apply their skills and knowledge to make connections across different areas of mathematics. Students will study topics across the four main areas of shape, space and measure, algebra, data and probability and number.

Skills developed

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

Topics covered

- Calculate with roots and integer indices
- Manipulate algebraic expressions by expanding and factorising
- Understand lines in the form $y = mx + c$
- Solve linear equations
- Plot and interpret graphs of quadratic functions
- Change freely between compound units
- Use ruler and compass methods to complete constructions
- Solve problems involving similar shapes and enlargements
- Calculate exactly with multiples of π
- Pythagoras Theorem
- Use geometrical reasoning to construct simple proofs

For more information

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