



Mathematics

Year: 11

It's not that I'm so smart, it is just that I stay with problems longer.

Albert Einstein

Course content

The final year of the GCSE course in mathematics involved pupils being given the opportunity to apply their key mathematical knowledge and understanding to GCSE style problems. Students will be supported in being able to make connections across various topics within the mathematical curriculum and have the ability solve multi-step problems independently to prepare them for the demands of the GCSE examinations.

Skills developed

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

Topics covered

- Forming and solving equations
- Trigonometry and Pythagoras in 2D and 3D problems
- Manipulating algebraic expressions
- Representing and analysing data in a variety of forms
- Standard form problems
- Fraction, decimal, ratio and percentages problems
- Transformations
- Probability including dependent events
- Perimeter, area and volume problems
- Compound measure application
- Angle problems
- Graphs of linear, quadratic and cubic functions

For more information

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