



Mathematics

“The essence of mathematics is not to make the simple things complicated, but the complicated things simple.”

S Gudder

Course content

The main aim of the Mathematics department is to stimulate engagement and enthusiasm for a subject which is often challenging, but, when mastered, provides a range of skills that are applicable to everyday life. Pupils are taught using a range of teaching and learning methods involving independent work, group work, computer or iPad based sessions, challenges and problem solving.

In Year 8 pupils build upon the knowledge obtained throughout Year 7 by applying these skills in other areas of mathematics such as algebra, data handling and proportion. Pupils gain a much broader understanding of the interlinking nature of mathematics as they develop their problem solving and reasoning skills in preparation for the new KS4 curriculum.

Pupils are formally assessed two times a year, in midterms and finals. These assessments form the Age Related Expectations for Year 8. In addition, pupils will sit an end of unit assessment for each topic they study. This allows pupils to evidence their progress against a series of both long and short-term outcomes.

Skills developed

- Responsibility for learning
- Conceptual understanding
- Problem solving

For more information

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Topics covered

- Substituting, expanding, simplifying and factorising expressions
- Solving equations
- Drawing and interpreting graphs
- Understanding and finding a rule for sequences
- Drawing charts
- Simplifying and dividing into ratio

