



Mathematics Department Curriculum Statement

Vision

Our core aim is to inspire students to develop confidence, curiosity and enjoyment in Mathematics, while recognising its importance as a powerful tool for understanding the world. We want students to experience success through problem-solving and to appreciate both the creativity and precision of mathematical thinking.

Our curriculum is designed to provide a rich, challenging and engaging learning experience that supports all students in developing fluency, reasoning and problem-solving skills. We aim to nurture resilience so that students approach unfamiliar problems with confidence, all while understanding that effort, reflection and feedback are essential parts of learning.

We are committed to delivering a carefully sequenced curriculum that builds knowledge over time, enabling students to make secure progress from Key Stage 3 through to GCSE and, for many, into Sixth Form study. Mathematics is highly valued by universities and employers, and we aim to equip students with the skills and mindset required for a wide range of future pathways.

Action

Students follow a five-year progressive curriculum throughout Key Stages 3 and 4, with a further two-year programme for those who continue their studies in the Sixth Form. Schemes of work are collaboratively developed and focus on building securely on prior knowledge, ensuring that key concepts are revisited and embedded over time.

In Years 7 and 8, students establish strong foundations across number, algebra, ratio and proportion, geometry, probability and statistics. Lessons are carefully structured to develop fluency alongside reasoning and problem-solving, encouraging students to think critically and communicate their ideas clearly.

From Year 9 onwards, students study for the GCSE Mathematics qualification (Edexcel), following either the Higher or Foundation pathway as appropriate. Teaching emphasises secure understanding, application of knowledge and examination technique. A small number of students are also given the opportunity to study GCSE Further Mathematics (AQA), providing a strong foundation for A-level study.

Students are placed in sets early in Year 7 to ensure that learning is appropriately paced and supported. Groupings are regularly reviewed to ensure that all students are challenged and supported effectively. Adaptation within lessons ensures access for all learners, with targeted intervention and additional support provided where needed.

Assessment is an integral part of teaching and learning. Regular formative assessment is used to identify misconceptions, inform teaching and support students in improving their understanding. Students are encouraged to reflect on their progress and take an active role in their development.

A range of teaching approaches is used to support learning, including collaborative tasks, structured practice, investigative work and the use of visual representations. Digital platforms such as Sparx and Mathswatch provide further opportunities for independent learning and consolidation both in school and at home.

Enrichment is an important part of the Mathematics curriculum. Students have opportunities to participate in activities such as the UKMT Mathematics Challenges, Team Maths competitions and the Maths Feast. Enrichment opportunities also include trips, such as visits to the National Space Centre, which highlight real-world applications of mathematics and inspire students to consider future pathways.

Students who require additional support benefit from smaller teaching groups and targeted intervention programmes. After-school sessions are available to all students to provide further support or extension as needed.

In the Sixth Form, students deepen their understanding through the study of A-level Mathematics and Further Mathematics. Teaching focuses on developing independence, advanced problem-solving skills and mathematical reasoning, preparing students for higher education and beyond. Many students progress to study Mathematics and related disciplines at leading universities, including Oxford, Cambridge and Russell Group institutions, as well as pursuing competitive apprenticeships in fields such as engineering and finance.

Impact

Outcomes in Mathematics are consistently strong, with students achieving high levels of attainment and progress in comparison to national benchmarks. Students leave the department with confidence in their mathematical ability and the skills required to succeed in further study and employment.

Mathematics remains a popular subject in the Sixth Form, with a high uptake of both Mathematics and Further Mathematics. Students achieve success in external competitions, including strong performances in UKMT challenges and team events.

The department has a strong track record of supporting students in progressing to ambitious destinations, including leading universities and high-quality apprenticeship programmes. Our provision ensures that all students, regardless of starting point, are well prepared for the next stage of their education and future careers.

Subject Contact

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