

Mathematics Department Curriculum Statement

Build resilience, self-reliance and perseverance	Raise aspirations and promote “self-challenge”	Experience a broad range of subjects and learning opportunities	Increase the “cultural capital” of students	Support Mental Health and Wellbeing	Develop deeper understanding and a love of learning and self-development.
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Intent

Our vision within the mathematics department is to give students the mathematical and numerical skills with which they can thrive academically and function successfully in their home community and working environment. As a department we help students to develop transferable skills and knowledge to prepare them for the wider world. The department intends to ensure that all students gain fluency in mathematical reasoning and problem solving. Our curriculum is designed to ensure that students receive a high quality mathematical education that is tailored to develop the skills the learners will require to develop mathematical application and resilience, and to have a sense of enjoyment and curiosity about the subject. Our department prides itself on establishing clear expectations which results in a safe and enjoyable learning environment.

Implementation

The department implements this through a carefully planned curriculum based on a five year progression model in Key Stages 3 and 4 and a two year progression model in the Sixth Form. The scheme of work has been developed so students gain Mastery in Mathematics topics through carefully sequenced lessons that focus on developing students reasoning and problem solving skills. Teachers are supported by each other to deliver high quality lessons. Students who succeed quickly are challenged by rich and analytical problems before being moved on to new concepts, they also have the opportunity to join an after school enrichment club which provides challenge and encourages participation in both team and individual challenges. Students who are less mathematically fluent are supported in their learning by being taught in small groups with extra teaching support and additional intervention where appropriate. After school sessions are available to all students in all year groups; whether they need extra support to make progress or have missed a session through absence. Regular assessments of knowledge, skills and application identifies priorities for intervention and future delivery, and also encourage students to reflect on their progress. We have a designated Numeracy Coordinator who supports other curriculum areas with their teaching of mathematical concepts. The whole school literacy policy of incorporating the key vocabulary as identified on the curriculum is upheld and students are encouraged to use appropriate language.

Impact

Outcomes within the mathematics department are good. Mathematics is a very popular subject at Sixth Form level and in recent years we have introduced Further Mathematics as an option with great success. The teaching, support and guidance provided by our staff has resulted in successful candidates moving onto Russell Group universities with one moving on to Cambridge. The high calibre of provision for enrichment for our more-able students has resulted in excellent achievements in the UK Individual and Team Challenges.