



The Mathematics Department

We are a strong, innovative team that work together to develop our own teaching and continually improve the quality of provision for all students. We are passionate about a mastery approach to teaching mathematics and a number of the team have worked with the BBO Maths hub as mastery specialists or advocates.

Working in the maths team offers you ...

A highly collaborative department, motivated and constantly learning:

- We meet weekly at joint planning where we discuss our consistent approaches to teaching for mastery and refine our shared curriculum resources.
- We have worked collaboratively with the BBO Maths Hub and NCETM to support them in conducting research on secondary teaching for mastery. We continue to work with both the BBO Maths Hub and NCETM each year.
- As part of the RLT we collaborate with other mathematics departments within the trust.
- We are open to professional development and regularly participate in peer observations and learning walks.
- Our department meetings are focused on professional learning.

A well developed curriculum:

- Our schemes of work have been designed carefully alongside our [curriculum principles](#).
- Within our highly coherent curriculum ([overview](#)) there is a focus on effective sequencing in each key stage and unit of work.
- Each unit of work is highly resourced including medium term plans, misconceptions, teacher notes, prior knowledge, learning outcomes, key words and resources to make use of for each lesson ([Year 7 fractions unit](#)). We welcome input from all members of the team on these resources and teachers can adapt them to suit a specific class.
- Within our teaching we use concrete and visual representations in topics to highlight the structure of mathematics for students and have thought carefully about when we introduce representations and how they progress throughout the curriculum. For instance we use double sided counters when teaching negative numbers to allow us to introduce the concept of zero pairs which is later built on in simplifying expressions and completing the square with algebra tiles.
- Within our curriculum we have thought carefully about building student fluency with key skills and department starters that regularly retrieve this knowledge are linked to the curriculum. We often make use of self marking google forms to complete these to provide instant feedback to both staff and students and support with workload.
- Centralised homework using Sparx Maths links with the curriculum to support students build fluency with key concepts and provide opportunity for retrieval practice.
- Within our teaching we make effective use of questioning techniques such as think, pair, share, mini whiteboards and open questions. We have thought carefully about how best to use mini whiteboards effectively in our lessons and these are routinely used in lessons.

A well resourced environment for developing your practice:

- The mathematics department is situated in a purpose built suite of classrooms including a large

staff office and photocopier.

- Each full time teacher has their own classroom which is fully equipped with a new interactive whiteboard, further regular whiteboards and a visualiser.
- Each classroom has a class set of mini whiteboards and various class sets of mathematical manipulatives.
- Every student has their own chromebook meaning we can make use of dynamic graphing software and virtual manipulatives easily within our lessons.
- We have active subscriptions to MathsPad, Integral Maths, ATM, Exampro, Mathsbox.

Students who are diverse, curious and keen to learn:

- Maths has a reputation for strong results and a high uptake at A Level.
- We offer the Core Maths qualification to KS5 students.
- Large numbers of students are involved in the UKMT Maths Challenges.
- We run an annual Year 7 Maths trip to explore the mathematics of Blenheim Palace.
- We run an annual Year 8 Maths trip to Bletchley Park.
- Our KS5 students participate in the Náboj international Maths competition each year.
- At Key Stage 4, we offer the AQA Level 2 Certificate in Further Mathematics to students who are ready to develop their mathematics beyond GCSE.

If you have any questions please contact:

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