



# Mathematics Department

Taught by 15 Specialist Teachers



## ACHIEVEMENT

**A fantastic effort by students, teachers and parents. GCSE and A Level Teacher Assessed Grades for 2020 - 2021.**

Grades	2020-2021 TAG's	2019-2020 CAG
7 - 9	20%	18%
5 - 9	53%	59%
4 - 9	82%	81%

**Our GCSE Progress 8 score has improved year on year.**

Grades	2020-2021 TAG's	2019-2020 CAG
A* - A	54%	56%
A* - B	71%	81%
A* - E	100%	98%

### Where everyone counts...

We pride ourselves on our excellent GCSE results and offer an enriching mathematical experience for all our students. This is achieved by our core principles of:

- Ensuring students are being catered for in a range of different ways according to their age, ability and social needs.
- Striving to ensure all are suitably challenged and have opportunities to develop their skills.
- Building high self-esteem and making certain students have clear pathway to success.

### What does the department aim to do for my child?

The basic belief of the department is that students vary widely in their characteristics but that each has an equal right to a stimulating and enriching curriculum.

Our aim is to create a thought-provoking and supportive learning environment, which recognises the differences between students but also enables each to develop fully.

We have high standards and expectations. We aim for students to develop the capacity for creative, rational and independent thought.

### Will my child have homework?

Homework is set on a regular basis to all students. The amount of time a student spends on this increase as they progress through the school years. We use Hegarty Maths which is an online platform for completing the homework. Microsoft Teams is the homework calendar for schools, students and parents. Any homework set appears on the Microsoft Teams calendar for students and parents to access.



# WHAT ELSE CAN THE DEPARTMENT OFFER?



The Maths department encourages all students to gain experience off the school premises as well as in school at some time during their time here.

- SI5 Spy Missions trip to Bletchley for KS3 students.
- Maths Masterclass for students.
- Educational trip to Bank of England to learn all about Maths and Finance.
- Happy Puzzle Company activity day for students.
- STEM projects with other departments.
- Year 11 Revision clubs.
- UKMT Maths Challenge Junior Award for selected students.
- UKMT Maths Challenge Intermediate Award for selected students.
- UKMT Maths Challenge Senior Award for selected students.
- Booster sessions for Year 11 students.
- Motivational speakers talking about real life Maths.

\*\*Please note, due to Covid -19 some of these events may not run this year or they may be organised in a different format.

## Curriculum in Year 7 & Year 8

Key Stage 3 is taught across years 7 and 8. This accelerated KS3 ensures not only that the most able students are pushed but that all students have 3 years to prepare for the GCSEs, which are so valued by colleges and employers.

The Key Stage 3 curriculum has been designed to ensure that students cover the depth and a wide breadth of Mathematics. This not only builds on skills from primary school but also exposes them to new and exciting experiences.

Each class has 4 lessons a week for a duration of 60 minutes per lesson.

Students who achieve national expectations at KS2 are supported to ensure appropriate revision and consolidation of the national curriculum with an emphasis to achieve at least Grade 5 or above.

## Curriculum in Years 9 - 11

Students follow the Edexcel GCSE Mathematics specification. Each class has 4 lessons a week; these year groups are taught in ability set groups. Those students in set 1 – 3 usually follow the Higher route and set 4 - 6 follow the Foundation route, though we tend to be flexible with this as different year groups have differing needs.

## Assessments & Marking

The Mathematics department regard assessment as a critical element of teaching and learning. Regular, valid and varied assessment of students' progress informs teachers, and most importantly students themselves, how they are doing and what they must do to improve.

We fully embrace the principles of assessment for learning, regarding assessment as part of the learning process, rather than additional to it.

## What resources does the department offer?

The following facilities/resources are available at the Maths Department:

- 11 Classrooms fully equipped with Smart. Interactive Whiteboards.
- Use of Microsoft Teams to deliver remote learning.
- A-Level Maths course.
- Core Maths course.
- Revision guides and workbooks.
- Visualisers and Tablets.
- Edexcel Maths textbooks.
- Access to HegartyMaths and Dr Frost Maths.
- Access to Pixl Club resources.