THE WARREN SCHOOL

DEPARTMENT TOUR

MATHEMATICS

Welcome to the Mathematics Department

In mathematics, students will focus on six key areas. These are Number, Algebra, Ratio, proportion and rates of change, Geometry and measure, Probability and Statistics. Students learn and practise mathematical skills in lessons and apply them to solve problems.

Students follow a curriculum based on Edexcel examination board.

Our Results

In GCSE 2019, in Mathematics, we achieved 59% grades 9 to 4. We are extremely proud of our students and all of their hard work. Many students go on to study A-Level Mathematics and have success in achieving places to study Mathematics and other demanding courses at university.

DEPARTMENT TOUR

KS3 – Books and course materials

KS3 Maths Progress Pi 1 — View resources

KS3 Maths Progress Pi 2 — View resources

KS3 Maths Progress Pi 3 — View resources

KS3 Maths Progress Theta 1 — View resources

KS3 Maths Progress Theta 2 — View resources

KS3 Maths Progress Theta 3 — View resources

KS3 Maths Progress Delta 1 — View resources
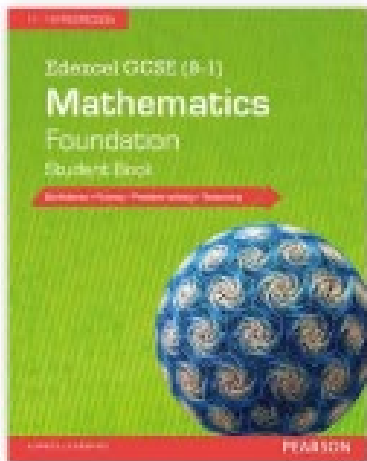
KS3 Maths Progress Delta 2 — View resources

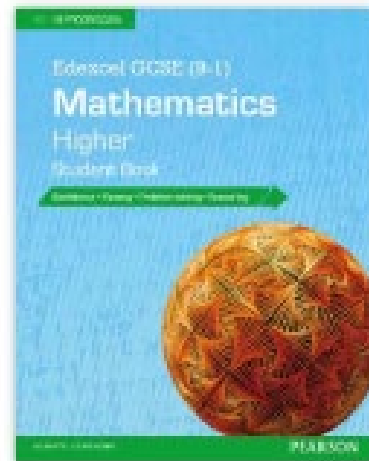KS3 Maths Progress Delta 3 — View resources

At KS3 we work through three levels of challenge via the Pi, Theta and Delta textbooks. These provide a range of support and challenge for our students through out their KS3 mathematics lessons and forms the basis of knowledge and skills needed in KS4.

KS4 – Books and course materials

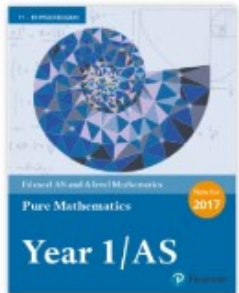**Edexcel GCSE (9-1) Mathematics Foundation**

View resources
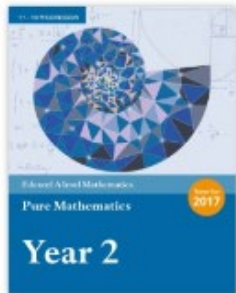
Edexcel GCSE (9-1) Mathematics Higher

View resources

At KS4 students begin the GCSE course for which we follow the Pearson's textbooks in Foundation and Higher. The course allows students to strengthen and apply skills gained at KS3 as well introduce new content to further challenge and stretch out students.

DEPARTMENT TOUR

KS5 – Books and course materials
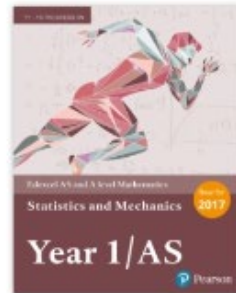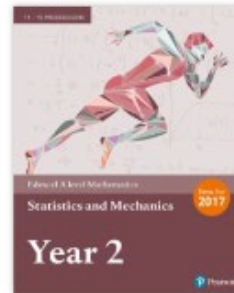
Pure Mathematics
Year 1-AS

View resources

Pure Mathematics
Year 2

View resources
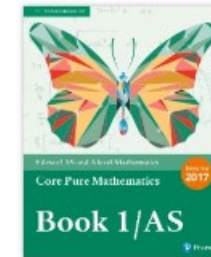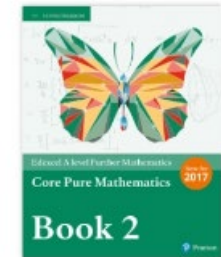
Statistics and
Mechanics Year 1-AS

View resources

Statistics and
Mechanics Year 2

View resources

Core Pure
Mathematics Book 1-
AS

View resources

Core Pure
Mathematics Book 2

View resources

A-Level mathematics at The Warren School has been growing in popularity over the years.

At KS5 students choosing A-level mathematics will study pure mathematics over two years along with and an applied option of statistics and mechanics.

Our further mathematics students study a further two core pure mathematics books along with two extra options ranging from either decision, further statistics, further mechanics or further pure mathematics. A-Level students also participate in nationwide mathematics challenges and competitions.

DEPARTMENT TOUR

Feedback and Marking

- *Self Marking:* Students mark every piece of their work in green pen during lesson time.

- *Live Marking*:* Teachers mark with red pen while circulating during the lesson.

- *Next Steps Markings:* Detailed marking by teachers in green pen every two weeks. Personalised mathematics specific target with next step target will be given to students for further improvement.

- *Verbal Feedback:* Teachers provide verbal feedback during lesson by using various AFL techniques.

*Suspended due to current pandemic guidelines

DEPARTMENT TOUR

Homework

Homework is set at least once a week for all year groups. Teachers use a variety of resources to set homework assignments. Homework is recorded on Google Classroom, and consist of either a work sheet task or an interactive Mathswatch activity.

NOW TRY THIS!!!

A little monkey had 60 peaches.

On the **first** day he decided to keep $\frac{3}{4}$ of his peaches.
He gave the rest away. Then he ate one.

On the **second** day he decided to keep $\frac{7}{11}$ of his peaches.
He gave the rest away. Then he ate one.

On the **third** day he decided to keep $\frac{5}{9}$ of his peaches.
He gave the rest away. Then he ate one.

On the **fourth** day he decided to keep $\frac{2}{7}$ of his peaches.
He gave the rest away. Then he ate one.

On the **fifth** day he decided to keep $\frac{2}{3}$ of his peaches.
He gave the rest away. Then he ate one.

How many did he have left at the end?