



# The Minster School

## Mathematics

$$\frac{1}{c} \frac{dd}{dt} = \frac{1}{c} \frac{1}{P} \frac{d}{dt}$$

$$D^2 = \frac{1}{P^2} \frac{P_0 - P}{P} \sim \frac{1}{P^2}$$

$$D^2 = \frac{K \rho}{3} \frac{P_0 - P}{P} \sim \frac{1}{3} K \rho$$

$$D^2 \sim 10^{-53}$$

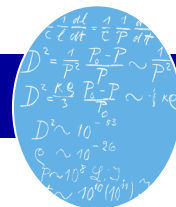
$$\rho \sim 10^{-26}$$

$$P \sim 10^8 \text{ g./cm}^3$$

$$t \sim 10^{10} (10^{11}) \text{ y}$$



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## The Mathematics Department

We are a team of hard-working and dedicated mathematicians who have a desire to see all students achieve success in their Mathematics studies, their wider curriculum and in their personal development.

### The Team

Helen McGregor	Curriculum Team Leader
Paul Tipple	Assistant Curriculum Team Leader
Helen Charnley	
Alex Poll	
Georgie Goldstein	Assistant Maths HUB Lead
Michael Towndrow	
Kate Auld	
Richard Blackmore	
Jayne Ireland	Maths HUB Lead
George Grosvenor	
Laura Barber	
Becky Patrick	





## Curriculum Overview

Years 7 Schemes are based upon the new Mastery Curriculum using lessons developed as part of our work as a Maths HUB. In Year 7 students are taught in mixed ability teaching groups. Students are taught in ability groups as they move into year 8 culminating in End of Key Stage examinations at Easter of Year 9.

After Christmas in Year 9 students begin the Edexcel Linear GCSE course. In Year 10 and 11 the students are grouped according to their ability and target tier Higher (grades 9 to 4) or Foundation (grades 5 to 1). In each academic year we have approximately 160 students following the Higher Tier course and 80 students following the Foundation Tier course. Our most able mathematicians are also offered the chance to take the GCSE Further Mathematics qualification.

We currently have approximately 100 A Level Mathematicians and 30 Further Mathematicians. AS and A2 students work towards the Edexcel examinations covering Pure Mathematics, Mechanics, and Statistics. There is a popular after-school Maths Club for AS and A2 Mathematics students. Post 16 students also have the option to study the AQA Core Maths Qualification as part of their enrichment provision.

## Headline Mathematics Results 2019

- At GCSE, **83%** of students gained a **grade 4** or higher with **24%** attaining a **grade 7** or higher
- **53%** of our students gained a grade **A\*- B pass in A2 Mathematics** and **100%** of our students achieved an **A\*- B pass at A2 Further Mathematics**



## Resources

The Maths Department is located in its own suite of rooms, each equipped with a PC, an interactive whiteboard, visualiser and wireless connection for a class set of laptops, as well as a traditional whiteboard.

The Minster School has a comprehensive induction programme for new staff, both experienced and of NQT status, and established members of staff are always on hand to provide less formal help and support.

## UKMT Maths Challenge

Each year, groups of more-able students are entered for the Maths Challenge: years 7 & 8 students for the Junior Maths Challenge, and years 9, 10, & 11 for the Intermediate Maths Challenge. There are always Gold, Silver, and Bronze awards made to some of our entrants; occasionally an outstanding student performs well enough to be invited to go on to the prestigious 'Kangaroo' Challenge.



## Teaching School

The Minster School has recently been awarded Teaching School status. The Mathematics Department will be involved as part of this role therefore opportunities will be available for a suitable candidate.

## Maths Hub

The Minster School has recently been awarded Maths Hub status. As the lead school within the Hub there are an increasing number of opportunities to be part of developing Mathematics teaching at all key stages across the East Midlands region.

