



THE MINSTER SCHOOL

Mathematics

$$\frac{1}{\tau} \frac{d\ell}{dt} = \frac{1}{\tau} \frac{1}{P} \frac{dP}{dt}$$

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

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

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

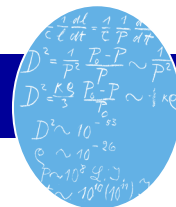
$$\rho \sim 10^{-26}$$

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

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



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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

Ben Chaloner Head of School

Alex Poll

Katie Goode

Fran Neep

Michael Towndrow

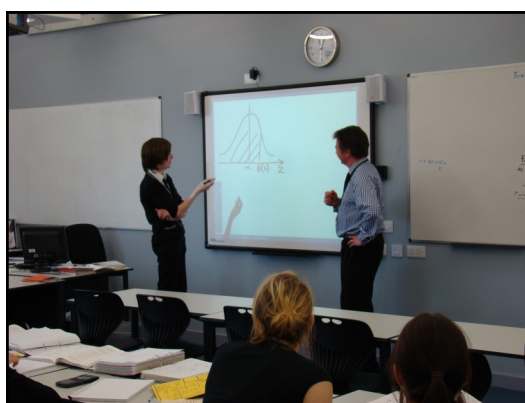
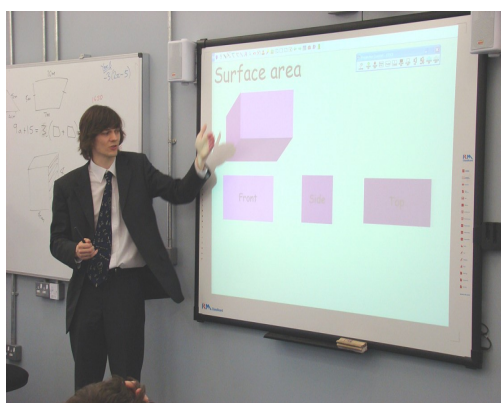
Kate Auld

Richard Blackmore

Jayne Ireland Maths HUB Lead

George Grosvenor

Alan Franks Departmental Assistant





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 Easter 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 the academic year 2017 to 2018 we have approximately 160 students following the Higher Tier course and 80 students following the Foundation Tier course.

We currently have approximately 130 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. We also offer Core Maths as an enrichment option for our Post 16 students.

HEADLINE MATHEMATICS RESULTS 2018

- At GCSE, 88.9% of students gained a grade 4 or higher with 34% attaining a grade 7 or higher
- 86% of our 57 students gained a grade A*- C 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 Department has a full time Departmental Assistant.

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.

