

Welcome to the Department of Mathematics and Statistics

Subject Leader: Mr David Casey



I have been the Subject Leader at Hadley Learning Community for seven years and have recently taken on the role of Mathematics Lead for the Learning Community Trust. During my time at HLC, I have seen the department grow, alongside the rest of the school. The progress and achievement of our students has always been in-line or above national outcomes, resulting in positive Progress 8 scores for the previous four years. We are a forward-thinking department who strive to get the best out of our pupils.

Our Students' Achievements:

Qualification	2016/2017	2017/2018	2018/2019	2019/2020	2020/2021
Maths Grades 4+	63.7%	58.9%	68%	79%	72%
Maths Grades 5+	43.5%	36.6%	37%	53%	52%
Progress 8 Score	0.469	0.02	0.01	0.6	0.42

Our Vision:

By studying Maths, students are aware of real-life opportunities and implications of numbers. Numbers are everywhere and our students will leave HLC knowing how they can use them in everyday situations.

At the end of a pupil's mathematical education at HLC, each pupil will be able:

- To perform a range of numeracy skills
- To perform a range of mathematical skills needed in their chosen career or for entry to higher or further mathematical education
- To understand the mathematics likely to be encountered in daily adult life
- To reason clearly and logically, and to set out a rational argument
- To identify patterns encountered in diverse situations and to extrapolate from these
- To approach problems systematically, choosing appropriate techniques for their solution
- To follow logical instructions clearly expressed
- To experience satisfaction in and enjoyment of their mathematical achievements
- To obtain any formal mathematical qualifications needed for his/her chosen career
- To obtain the best possible results at KS3 and KS4

Our Curriculum:

Mathematics contributes to the school curriculum by developing pupils' abilities to calculate; to reason logically, algebraically, and geometrically; to solve problems and to handle data. Mathematics is important for pupils in many other areas of study, particularly Science and Technology. It is also important in everyday living, in many forms of employment, and in public decision-making. As a subject in its own right, Mathematics presents frequent opportunities for creativity, and can inspire moments of pleasure and wonder when a problem is solved for the first time, or a more elegant solution to a problem is discovered, or when hidden connections suddenly manifest.

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It enables pupils to build a secure framework of mathematical reasoning, which they can use and apply with confidence. The power of mathematical reasoning lies in its use of precise and concise forms of language, symbolism and representation to reveal and explore general relationships. These mathematical forms are widely used for modelling situations; a trend accelerated by computational technologies.

The subject transcends cultural boundaries and its importance is universally recognised. Mathematics helps us to understand and change the world.

We follow a three-year KS3 curriculum to prepare our students for their GCSE Maths ensuring we cover all the aspects of Number, Algebra, Data, Geometry, Measures and Problem Solving. In Year 9, we complete a transition module to enable all our students to access the GCSE course. Throughout all years we complete various projects, mini-investigations and activities to ensure that SMSC is being delivered in high quality, engaging lessons.

At HLC we study the Edexcel linear course for GCSE. We are always looking at adapting our curriculum to include real world Mathematics and forge links and opportunities. We also offer GCSE Statistics as an option to enable our students to fully prepare for A-Level Mathematics and the world beyond Hadley Learning Community.

Our Team:

The Mathematics team at HLC comprises of 12 teaching staff. We are a dynamic group of people with a wealth of experience. This mix of experience, knowledge and fresh perspectives ensures that our approach to the teaching of Mathematics is open, flexible and current. We have a low staff turnover, of which we are extremely proud, and this exemplifies our positive and caring team.

We are further developing the teaching of Mathematics at HLC by investing in the work of Craig Barton. This includes bespoke CPD sessions, coaching and sharing of good practice. The successful candidate will become part of this drive to ensure that research-informed practice is at the heart of our department.

Interested in Joining our Team?

If you would like any further information about us, please do not hesitate to get in touch with me. Equally, if you would like to see us in action, we would welcome a visit from you.

Yours faithfully



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