

Alperton Community School is a non-selective Academy based near Wembley Stadium in North London. In 2016, Alperton received 81% A\* to C in GCSE mathematics and are in the top 1% in the country with regards to Progress from KS2 to KS4. The school also offers statistics and further maths at KS4 and received 96% A\* to C for the former and 99% A\* to C for the later. At KS5, the results for A2 and further maths both received 63% A\* to B.

The department has 15 full time teachers who are all dedicated and committed, supporting each other and happy to go the extra mile for all of its students who are at the forefront of everything that we do.

Staff are involved with many extra-curricular clubs including a MAT maths club, master classes, chess competitions and intervention sessions which also take place during the holidays demonstrating the drive the department have to help the students make progress. The school enters the top performing students into the UKMT maths challenge competing against top students across the country and in 2016 Alperton won 5 gold, 29 silver and 37 bronze awards.

There is clear monitoring to ensure progress is being made and every pupil has a Learning checklist which shows them which areas they must make more progress in. Feedback is provided to each student using the Wow, now, how technique – explaining what the students are good at, what the students need to work on to improve and then how the students must execute this.

The teaching is innovative and imaginative by incorporating real life into the subject i.e. using cooking recipes with ratios and golf shots with quadratic graphs. Teachers also use props to help bring the subject alive including huge soft dice for probability, making 'angry birds' from their nets, dominoes to describe fractions and meter rulers when demonstrating parallel lines.

In terms of how we create a buzz, we stimulate moments of pleasure when they solve a problem and discover a more elegant solution. We inspire students to think independently in applied and abstract ways and as mathematics is creative, we show that the subject transcends cultural boundaries and is universally recognised.

We have made children excited about studying maths by delivering lessons in fully equipped classrooms with touch screen interactive boards. We use online materials and text books which incorporate functional skills which links all areas of mathematics to the real world. We have 50 laptops allocated to the faculty to support teaching and learning.

Students are taught in ability groups and cover an engaging curriculum which caters for all learning styles and enables students to become independent learners with problem solving skills.

Colleagues are excited about teaching the subject as we have designed the curriculum to allow students to excel through challenging activities and we offer a variety of different activities throughout the year including Pi day, number day, Maths in Action, The Science, V&A and the Natural History museums and Extended Learning Days.