

STAGS Maths Highlights



39% of GCSE students achieved a Grade 9-7 in summer 2017

91% of GCSE students achieved a Grade 5 or above in summer 2017.

100% 9-1 at GCSE in 2017



STAGS is a Leading Mathematics Faculty in Hertfordshire.

Access to new technology to enhance student experience.

10 specialist Maths teachers within the department.



Quotes from current Year 7's

"At STAGS Maths lessons are creative - sometimes you play online games. There are lots of puzzles that you have to work in groups to solve. You do learn a lot but in a fun way."

"STAGS wants the best for you, so they help you as much as they can to make sure you get there."

"I have found Maths great because the teachers have explained everything really well and they always make sure you understand everything."

"Maths at STAGS is really fun, they let you learn at your own pace and make sure you always understand"

"My Maths lessons at STAGS are both fun and challenging. If you ever have a question or are confused then a teacher is always happy to help."



MATHS

The Department that counts

'Number rules the Universe'
Pythagoras (572-497 B.C.)

*There are three types of people.
Those who can count, and those who can't.*



St Albans Girls' School
Specialist Business and Enterprise Academy



Mathematics is the study of quantity, structure, space, and change. Mathematicians seek out patterns, formulate new conjectures, and establish truth by rigorous deduction from appropriately chosen axioms and definitions.

Introduction

The Maths department is located in its own block with 6 modern classrooms. All are fitted with new touch screen interactive whiteboards. There is a trolley containing 32 Chromebooks located in the Maths block to allow students to use online activities to aid learning. We have 10 specialist Maths teachers in the department.

Setting

Early in their first term the students are set into 3 or 4 sets within half year groups. This setting is based upon the Key Stage 2 analysis brought from their Primary School in addition to a test that we give them in their first week at STAGS. The students are then taught in these sets all the way through to GCSE in Year 11, although at every stage and at every level the setting is re-assessed giving the students every opportunity to move between groups, as appropriate.

Extra-Curricular Activities and Support

We have Maths clubs open to all students twice a week. These are the perfect place to get help, revise or even just complete home learning. Year 7 have an additional club, MathsMania. This club has a focus on the fun and investigative areas of Maths.

Some students will be invited to attend Master Classes at Hertfordshire University. We also enter some students for the individual and team Maths Challenges and subsequent competitions, where traditionally they perform above the national average.

All students have access to www.mymaths.co.uk to support their learning and will be set home learning using the website. Students in Key Stages 4 and 5 have access to tuition videos on any of the topics covered via vle.mathswatch.co.uk.



At Key Stage 3 we focus on ensuring a solid grounding through varied, fun and interactive lessons where students feel confident to ask questions.

All students cover the same topics in Year 7, however more able students will develop a deeper understanding and the applications of the content. For all learners, a great deal of time and effort is spent studying practical applications of Maths in designated Maths in context lessons. One example is processing data from the RSPB bird survey that all Year 7 students take part in.

At Key Stage 4 we are focused on ensuring students are well prepared for the GCSE exams.

During Years 9, 10 and 11 we follow the three year Edexcel GCSE syllabus. All students have access to the exam board online learning platform and interactive textbooks. Students take part in STEM days which develop the important links between Science, Technology, Engineering and Maths.

At Post 16 we inspire students to continue to Maths related University subjects.

During Year 12 and 13 we study a range of Core, Statistics and Mechanics topics in Year 12 and 13. There is the opportunity for the most able students to study Further Maths at A Level. Many of our further Mathematicians are inspired to study Maths at University.