

Head of Faculty: Mr S Hall

Purpose of Study

Mathematics is essential, in order to function in life. As a result of this, Mathematics is crucial for being able to solve problems, and to investigate topics deeply. It is crucial for employment, as an ability to use numbers, percentages, and in other advanced spheres, design, accountancy, engineering. Mathematics is also about fostering curiosity, not only to find answers to simple problems, but also to investigate numbers in a deeper way as well, and to be able to justify reasons for problems being correct.

Aims

At Adeyfield School, our vision for Maths is that

- We promote a love of numbers, and being able to investigate number, patterns, sequences, and to make discoveries themselves.
- Students become more fluent in new spheres of Mathematics, using varied and frequent practise to master increasingly complex topics from Year 7, to beyond.
- To be able to prove, justify, and show why enquiries are correct, and also that students are allowed to make mistakes, and that they can provide more than one different solution.
- They are able to problem solve, and they become more sophisticated in solving problems that they may face in real life.

The Maths curriculum in Year 7 aims to build on the work that has been done at primary school, and they will be able to apply and use these skills, not only in Mathematics, but also in subjects such as Science, Geography, and ICT. There is a lot of focus upon number work, and investigating the properties of numbers. They will also be maintaining and advancing key arithmetic skills, through our numeracy Ninjas programme at the beginning of every lesson. We are keen to combine introducing new concepts, with investigation work, on topics such as prime numbers, factors, algebra, and many other topics.

Students will be asked to look at more complex problems before any acceleration through the syllabus. Any students who require further intervention will have the ability to be picked up within class, by our dedicated TA, or through intervention sessions during PM registrations from 1.45-2.00. The aim is that students will be ready, and confident to begin their studies for the GCSE Mathematics at Key Stage 4.

Calculators are not used as a substitute for written and mental arithmetic, but they are an essential piece of equipment for Maths lessons, so a scientific calculator is an expected piece of equipment for every Maths lesson.