

Subject Intent Statement

Maths

Mathematics is a creative and highly interconnected discipline that has been developed over centuries, providing the solution to some of history's most intriguing problems. It is essential to everyday life, critical to science, technology and engineering, and necessary for financial literacy and most forms of employment. Our high quality mathematics education provides a foundation for understanding the world, the ability to reason mathematically, an appreciation of the beauty and power of mathematics, and a sense of enjoyment and curiosity about the subject.

Mathematics is an interconnected subject in which pupils learn to be able to move fluently between representations of mathematical ideas. We believe strongly in teaching for understanding and mastery of the subject. The programme of study for key stage 3 is sequenced into, what may appear to be, distinct domains, but pupils build on key stage 2 and connections across mathematical ideas to develop fluency, mathematical reasoning and competence in solving increasingly sophisticated problems. The teaching for sound knowledge of key concepts then enables students to access the Key Stage 4 Scheme of Work.

Our Key Stage 4 scheme of work is structured in a similar way to Key Stage 3 however students will follow one of 2 routes on their learning journey. Route 1 is for entry level students and Route 2 is aimed at GCSE level students. Both of these routes build on previously mastered topics where we retrieve, affirm and build on the knowledge and understanding as we progress through the curriculum. As students approach their final year at Key stage 4 they will follow a personalised scheme of learning that targets gaps in knowledge of each student's performance in the frequent assessments that take place. This fully prepares them for success in their GCSE examination. Pupils also learn to apply their mathematical knowledge in Science, Geography, Computing and other subjects.