



In mathematics – we seek to develop students' fluency and numeracy, reasoning and problem solving skills in order for them to have a deeper understanding of mathematical concepts which permeate throughout the real world.

Importance

The Mathematics Curriculum:

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. A high-quality mathematics education therefore 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.

"Every child a mathematician"

Aims of the Curriculum

The aims of the mathematics curriculum is to ensure that students:

- ☐ Become fluent in the fundamentals of mathematics including through varied and frequent practice with increasingly complex problems over time, so that pupils develop conceptual understanding and the ability to recall and apply knowledge rapidly and accurately
- ☐ Reason mathematically by following a line of enquiry, conjecturing relationships and generalisations, and developing an argument, justification or proof using mathematical language
- ☐ Can solve problems by applying their mathematics to a variety of routine and non-routine problems with increasing sophistication, including breaking down problems into a series of simpler steps and persevering in seeking solutions
- ☐ Experience a broad curriculum covering the main mathematical strands; Number, Algebra, Shape and Space, Ratio and Proportion, Statistics and Probability
- ☐ Become reflective and resilient learners who are willing to make mistakes and learn from them
- ☐ Understand how and why methods are used and can select efficient methods to solve simple and more complex problems.

