

SMSC in Mathematics

Developing deep thinking and questioning the way in which the world works, promotes the spiritual, moral, social and cultural growth of students. In Maths lessons pupils are encouraged to delve deeper into their understanding of Mathematics and how it relates to the world around them. The skills of analysing data are taught from Year 9 to Year 11 to enable students to make sense of vast amounts of data available in the modern world around them. Sixth Form students are able to extend this knowledge through the study of Statistics and Newtonian Mechanics. Statistics allows students to study sequences, patterns, measures and ultimately the entire study of Mathematics was created to make more sense of the world around us and we enable each of our students to use Maths as a tool to explore it more fully. Newtonian Mechanics is the study of Newton's three laws of motion which allows students to model real world problems such as kinematics, dynamics and collisions.

Problem solving skills and teamwork are fundamental to Mathematics, through creative thinking, discussion, explaining and presenting ideas. Students are always encouraged to develop their Mathematical reasoning skills, communicating with others and explaining concepts to each other. Self and peer reviewing are very important to enable pupils to have an accurate grasp of where they are and how they need to improve. Working together in pairs or groups and supporting others is a key part of Maths lessons.

Year 10 & 11 students have the chance to take the Intermediate Maths challenge competing against the top academic students countywide. This is also available to Year 12/13 in the Senior Maths Challenge.