

Mathematics - SMSC

Spiritual Development in Mathematics

Developing deep thinking and questioning the way in which the world works promotes the spiritual growth of students. In Maths lessons, students are always encouraged to delve deeper into their understanding of Mathematics and how it relates to the world around them. The skills of analysing data enable students to make sense of vast amounts of data available in the modern world around them. 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.

Moral Development in Mathematics

The moral development of students is evident in various parts of the Mathematics syllabus. This often arises in lessons where students are designing surveys – the discussion will often lead to real world issues such as animal testing. Also, questions will need to be designed to avoid bias such as sexism.

Social Development in Mathematics

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 students 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. Gifted and talented students are given the opportunity to work together in a team in local competitions such as the UK Maths Team Challenge or the 'Square Off' at Hereford VI Form.

Cultural Development in Mathematics

Mathematics is a universal language with a myriad of cultural inputs throughout the ages. At BHBS, we encourage the teaching of various approaches to Mathematics, including the Chinese grid method for multiplication. We also explore the Mathematics applied in different cultures such as Rangoli patterns, symmetry and tessellations. The ability to use exchange rates for foreign travel is also an important life skill students will learn. Maths sets are named after letters of the Greek alphabet and these letters are also used in various branches of Mathematics.