

## *Spiritual, Moral, Social & Cultural Development (SMSC) in*

# **MATHEMATICS**

### **SPIRITUAL DEVELOPMENT**

In maths, we promote the awe and wonder of the students and encourage them to have a love of mathematics. This includes providing a 'wow factor' to lessons in problem solving, number sequences (including the Fibonacci sequence which is present in nature, art and our everyday surroundings), infinity, irrational numbers, and trigonometry.

### **MORAL DEVELOPMENT**

We teach students a moral application of money and loans, giving them an awareness of the implications surrounding finances. We also teach students to be aware of the misuse of data by industries to deceive or manipulate. Looking at surveys and questionnaires, we ensure that students are aware of what makes an appropriate question, and how the wrong questions can have an insensitive impact.

### **SOCIAL DEVELOPMENT**

We encourage collaborative work between the students, and peer assessment in the classroom. We also look at mathematics in the real world, including topics on statistics, real-life graphs, birth, mortality and employment rates, and planning ahead.

### **CULTURAL**

Mathematics is a universal language. We look at different numerical systems, such as Roman numerals, Egyptian numerals and Chinese numbers. Students are encouraged to increase their real-life applications in maths by looking at measuring systems and how imperial units are still apparent in our society, regardless of the UK being a metric country. Interest is encouraged by providing mathematical role models, sharing famous mathematicians from history and their impact on society throughout the years.