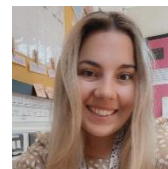




## Maths

Maths Leader: **Mrs L Eaton**



### Mrs Eaton's passion for Maths

Maths has always been a subject that I have loved and one that I thoroughly enjoy teaching. From a young age, my maths learning was always something that intrigued me. Solving problems and figuring out different ways to answer questions has always fascinated me. Being able to instil this curiosity with my pupils at St. Pauls is a role I am honoured to have. Maths has endless opportunities to create lifelong learning and the essential skills taught in day to day maths lessons are crucial in developing our pupils understanding of the wider world and how to navigate their way through it.

### Maths Subject Vision

At St. Paul's, we endeavour to teach a rich and progressive curriculum personalised to our children's needs which begins to build a love for the subject. We believe that mathematics teaches the children how to make sense of the world around them, through developing their ability to calculate, reason and solve problems. We encourage the children to understand and appreciate how number and space is used in their everyday lives in and out of school and their growing knowledge and understanding will support them in our developing society and their future lives.

### Maths and St. Paul's Values & Ethos

The following St Paul's values flow seamlessly through our bespoke maths curriculum:

#### **Friendship and Nurturing:**

Our maths curriculum works hard to incorporate collaborative learning and provides children the opportunity to work together in teams to solve problems and investigate mathematical ideas. Children are often found encouraging each other and praise each other's successes to create a warm and nurturing environment.

#### **Respect and Tolerance:**

As we teach each lesson, children are taught to respect others and listen to their contributions and ideas of how to solve problems. Children think differently, and by sharing their methods and working out, children often gain a new insight into solving questions.

#### **Thankfulness and Joy:**

Maths lessons are often filled with joy and excitement. Children thoroughly enjoy their maths lessons and are keen to challenge themselves.

#### **Perseverance and Courage:**

Being brave and encouraged to take risks is an integral part of our maths sequencing. Mistakes are celebrated and children are encouraged to learn from these. Our children at St. Paul's are challenged to take risks and to not give up when questions may seem problematic.

### National Curriculum aims for Maths

The national curriculum for mathematics aims to ensure that all pupils:

- 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.

### SMSC Math's Statements

**Spiritual**

Maths supports pupils' spiritual development by helping them to develop deep thinking and questioning the way in which the world works. Through Maths, children gain an appreciation of the richness and power of Mathematics in our everyday lives. We promote this through solving real-life mathematical problems and through having aspiration days, where the children can see how maths is used in a variety of professions.

#### **Moral**

Maths supports pupils' moral development through discussion about mathematical understanding and challenging assumptions, supporting children to question information and data that they are presented with. Maths helps children to understand and use rigorous and logical argument and discourage jumping to conclusions when trying to determine the truth.

#### **Social**

Maths supports pupil's social development by promoting self-esteem and building self-confidence. Maths encourages collaborative learning in the classroom in the form of listening and learning from each other and paired discussion and working with partners. We help pupils develop their mathematical voice and powers of logic, reasoning and explanation by offering explanations to each other. We provide events and team Maths challenges for increased pupil involvement.

#### **Cultural**

Math's supports pupils' cultural development by developing an appreciation with the pupils that Mathematics and its language and symbols have developed from many different cultures around the world: e.g. Egyptian, Indian, Islamic, Greek and Russian roots. Through math's, we investigate and research cross cultural patterns and create cross-curricular links with History and Art.