



Little Sutton C of E Primary School

Mathematics Statement



Intent

Mathematics equips pupils with the uniquely powerful set of tools to understand and change the world. These tools include logical reasoning, problem solving skills and the ability to think in abstract ways.

Mathematics is integral to all aspects of life and with this in mind we endeavour to ensure that children develop a healthy and enthusiastic attitude towards Mathematics; an attitude that will stay with them to encourage enquiring minds, entrepreneurial thinking and economic wellbeing.

At Little Sutton Church of England Primary School, we follow the 'Mathematical Programme of Study 2014' which provides detailed guidance for the implementation of the National Curriculum for Mathematics. This ensures continuity and progression in the teaching of Mathematics. In the Foundation Stage, children are encouraged from an early age to investigate and play with numbers, shapes and measures. A hands-on, explorative approach is at the heart of learning in EYFS - an approach we seek to foster throughout the primary school journey.

The 2014 National Curriculum for Mathematics aims to ensure that all children:

- Become fluent in the fundamentals of Mathematics
- Are able to reason mathematically
- Can solve problems by applying their Mathematics

At Little Sutton Church of England Primary School, these skills are embedded within Mathematics lessons and developed consistently over time. We are committed to ensuring that children are able to recognise the importance of mathematics in the wider world and that they are also able to use their mathematical skills and knowledge confidently in their lives in a range of different contexts. We want all children to enjoy Mathematics and to experience success in the subject. We are committed to developing children's curiosity about the subject, as well as an appreciation of the beauty and power of mathematics.

Implementation

We aim to provide the pupils with a Mathematics curriculum, which will produce individuals who are literate, numerate, creative, independent, inquisitive, enquiring and confident. We also aim to provide a stimulating environment with suitable resources so that pupils can develop their mathematical knowledge, skills and understanding to their full potential. Through concrete, pictorial and abstract investigation, our pupils should have a sense of:

- the size of a number and where it fits into the number system
- know by heart number facts such as number bonds, multiplication tables, doubles and halves
- use what they know by heart to manipulate numbers mentally
- calculate accurately and efficiently, both mentally and written
- draw on a range of calculation strategies to solve efficiently

- make sense of number problems, including real life problems, and recognise the operations needed to solve them
- discuss and explain their methods and reasoning using correct mathematical terms
- judge whether their answers are reasonable and have strategies for checking them
- where necessary, suggest suitable units for measuring and make sensible estimates of measurements
- explain and make predictions from the numbers in graphs, diagrams, charts and tables
- develop spatial awareness and an understanding of the properties of 2D and 3D shapes

Pupils are provided with a variety of opportunities to develop and extend their mathematical skills in and across each phase of education. We have adopted a mastery approach to the teaching of maths, whereby children are given a deeper and broader understanding of the key mathematical concepts rather than being accelerated quickly through new content.

We follow the DfE recommended, 'Power Maths' programme of study (introduced in school in 2021) The teaching of Mathematics at Little Sutton Church of England Primary School provides opportunities for: group learning, adult guided groups, paired learning, whole class teaching and individual learning through the lesson structure of:

Discover - Share - Think Together - Practice - Reflect.

Pupils engage in: the development of mental strategies, compact written methods, practical tasks, investigational learning, problem solving, mathematical discussion, consolidation of basic skills and number facts, and the appropriate use of I.T. to support learning.

Impact

As a result of our Maths teaching at Little Sutton Church of England Primary School you will see:

- Engaged children who are all challenged and supported
- Confident children who can all talk about Mathematics, their learning and the links between Mathematical topics
- Lessons that use a variety of resources to support learning
- Different representations of mathematical concepts - concrete, pictorial and abstract
- Learning that is tracked and monitored to ensure all children make good progress
- Children who recognise the importance of Mathematics to their lives

Early Years Foundation Stage

At Little Sutton Church of England Primary School, we believe that the early experiences of children set the course of their learning for life. We seek to develop a love of learning through playing and exploring, discovering and creating and through thinking critically.

Through a rich and engaging environment centred around play, we aim to enhance children's natural interest in Mathematics and their disposition to explore and use it to make sense of their physical and social worlds. Maths is taught within the Mathematics area of the Early Years Foundation Stage Curriculum. We follow a Maths Mastery Approach with an emphasis on exploring key skills of number, calculation and shape so that pupils develop deep understanding and use mathematical language. Pupils learn through games and tasks using concrete manipulatives which are then rehearsed and applied during independent exploration. These collaborative and practical mathematical experiences are carefully designed to help pupils remember the content they have been taught and to support them with integrating their new knowledge across the breadth of their

experiences and into larger concepts. Teaching Mathematics in such a kinaesthetic and practical way, supports our children to become logical problem solvers that can demonstrate resilience and reasoning when learning.

Assessment

At Little Sutton Church of England Primary School, we believe that assessment is part of everyday learning in all phases of the primary journey. Through daily interactions with children, teachers are constantly assessing understanding and skill application to inform next steps for individuals, groups and classes. We actively encourage the children to reflect on their learning – their steps of progress and their areas for improvement to engage them in the assessment for learning process. Summative assessments are used to support teacher judgements. End of unit assessments are used within the teaching of Power Maths to identify gaps and areas for revisiting. In addition, in years one to six, more formal termly assessments from Power Maths are used to monitor children's application of knowledge and understanding.

Equal Opportunities and Inclusion

Through the school's REACH acronym, we are committed to providing a teaching environment that ensures all children are provided with the same learning opportunities regardless of social class, gender, culture, race, special educational need or disability. Teachers use a range of strategies to ensure inclusion and to maintain a positive ethos where children demonstrate positive attitudes towards others. Support for specific individuals is well considered and planned for, with consideration given to how greater depth and further challenge can be provided and demonstrated by children who require further challenge. All pupils are entitled to access the mathematics curriculum at a level appropriate to their needs.

To ensure inclusion, teachers use a range of strategies in line with the school's Inclusion Policy. Independent tasks, as well as teaching, are well-adapted to ensure full accessibility and reasonable adjustments are made when needed, as well as to provide appropriate challenge to different group of learners. The school makes full use of additional adults who are deployed effectively to ensure that identified children are able to make progress in each curriculum area, according to their full potential.

British Values and Christian Distinctiveness

As a Church of England School, Christian Values are embedded at the heart of our community. Each half term we focus on a specific value in Collective Worship, in order to gain a better understanding of how these values impact the way that we live. As a Church of England School, mutual respect is at the heart of our values. Children learn that their behaviours have an effect on their own rights and those of others. All members of the school community treat each other with respect and follow our three school rules: 'Be kind, be safe, be respectful'. As a friendly and welcoming primary school in Little Sutton our children learn about British values like respect, tolerance, democracy, liberty and law. We appreciate and celebrate diversity through the teaching of stories, values and celebrations from a variety of faiths and cultures.

The Curriculum Leader for mathematics is:

Miss Jane Edwards