Mathematics

Our offer

At St Peter's we aim to provide a rich and dynamic mathematics curriculum that will meet the needs of all pupils. Our curriculum is designed to foster a love of mathematics which will provide a platform for pupils to understand the application of mathematics and problem solving in today's world.

We aim for all our pupils:

- To become fluent in mathematical knowledge and concepts so that they can recall and apply their knowledge quickly and accurately.
- To reason mathematically through a process of enquiry and experimentation working both independently and collaboratively, developing a coherent argument using mathematical language.
- To solve problems by thinking logically and working systematically to apply their skills to a range of challenges.

Pupil Experience

We deliver the National Curriculum using a mastery approach. The national White Rose scheme is followed and supplemented with other resources to ensure challenge for all pupils. In EYFS and KS1, we use the number sense programmes from NCETM (National Centre for Excellence in the Teaching of Mathematics). The schemes of work are used to plan progressive, creative lessons that follow the C.P.A. (Concrete, Pictorial, Abstract) approach. All learning activities are designed to include the key elements of fluency, problem solving and reasoning. Pupils are challenged at an appropriate level, to make sure that they progress from their individual starting points.

Scaffolding and personalised support is used across the school to ensure that all pupils can access the same learning objectives. Pupils with specific learning needs are provided with bespoke learning activities based on their current level of attainment. Maths booster sessions support these and other learners. All classrooms are equipped with a range of resources to support the teaching and learning of key mathematical concepts. These include concrete and pictorial resources as well as lesson activities from White Rose and NCETM.

The school's calculation policy ensures progression in the development of arithmetic skills. Pupils also focus on a range of basic skills expected for each year group. This ensures progression across year groups and a more efficient and confident approach when completing calculations. Stem sentences are used to reinforce key concepts and pupils gain a good command of mathematical language to explain their reasoning. Times tables, both multiplication and division, are taught and assessed regularly to promote prompt recall of key number facts.

Mathematical days, Maths week, outreach from a local independent school and participation in the KS2 National Primary Maths Challenge all provide opportunities for

applying skills and promoting mathematics as a fun, relevant subject that is accessible to everyone. Each week children are set a web-based home learning activity related to their previous week's learning.

Practical application of Maths at Forest School

Fairtrade Maths Game

What is the impact on pupils going forward?

Most children reach end of year expectations with interventions in place where necessary to facilitate this. Our pupils apply their knowledge independently to a range of increasingly complex problems and can reason with increased confidence and accuracy. The skills that they learn in Maths develop thinking skills and resilience which can be applied to all areas of the curriculum and social situations.

With a solid understanding of mathematical concepts and their application to the real world, pupils will be ready for the challenges of the KS3 curriculum. They will be confident in their own ability and understanding of the world which is so often explained in numerical data.

NSPCC Number Day