



St. Patrick's Catholic Primary School

Maths

Intent, Implementation and Impact Statement

Intent.

At St Patrick's Catholic Primary School, we believe mathematics is an important part of children's development throughout school. We recognise that mathematics underpins much of our daily lives. Therefore, achieving success in mathematics is of paramount importance for children to aspire in life, as well as to become successful in the next stages of their learning. We intend to deliver a curriculum, in line with the expectations in the National Curriculum 2014, which allows children to be part of creative and engaging lessons that will give them a range of opportunities to explore mathematics following a mastery curriculum approach. This will aim to make rich connections across mathematical ideas, to develop fluency, mathematical reasoning and competence in solving increasingly sophisticated problems. All children will have access to high quality teaching and learning opportunities, enabling them to achieve their potential. Pupils will have the chance to believe in themselves as mathematicians and develop the power of resilience and perseverance when faced with mathematical challenges. The children will be encouraged to have a growth mind-set and an understanding that the journey involved in solving mathematical problems is just as important as finding the solution.

Implementation

Our mastery approach to the curriculum is designed to develop children's knowledge and understanding of mathematical concepts from the Early Years through to the end of Y6. We follow the national curriculum and use the Herts for Learning Essential Maths Schemes of Work as a guide to support teachers with their planning and assessment. At the start of each new topic, key vocabulary is introduced and revisited regularly to develop language acquisition, which is embedded as the topic progresses. Children are taught through clear modelling

and have the opportunity to develop their knowledge and understanding of mathematical concepts. The mastery approach incorporates using objects, pictures, words and numbers to help children explore and demonstrate mathematical ideas, enrich their learning experience and deepen understanding at all levels. Reasoning and problem solving are integral to the activities children are given to develop their mathematical thinking. An enjoyment of maths is encouraged throughout school via links with other subjects, with pupils applying an ever-growing range of skills with increasing independence.

Children with additional needs are included in whole class lessons and teachers provide scaffolding and relevant support as necessary. For those children who are working outside of the year group curriculum, individual learning activities are provided to ensure their progress. Assessment informs the teaching and learning sequence: formative assessment within every lesson helps teachers to identify the children who need more support to achieve the intended outcome and who are ready for greater stretch and challenge through planned questioning or additional activities. Summative assessments are completed at the end of blocks and at the end of the academic year. Gap analysis of any tests feeds into future planning.

Impact

Children will grow as confident mathematicians with a strong grasp of facts and procedures. They will be able to move between different contexts and representations of maths, recognise relationships and make connections in maths lessons. They will show their mastery of skills and concepts by using them in multiple ways, using the mathematical language to explain their ideas, and being able independently to apply their reasoning systematically to new problems in all sorts of real-life situations. They will be ready for the next stage of their mathematical education.