

Maths at St Joseph's

Curriculum Intent, Implement, Impact

Intent

At St Joseph's RC Primary School our curriculum intends to give children in our care the opportunity to 'be the best that they can be.' We want our children to develop a love of learning which enhances their knowledge and skills but also develop a lifelong curiosity for Maths. We aim to do this in a learning environment where all feel welcome, safe and secure so that they can live life to the full.

At St Joseph's, the intent of mathematics is to deliver a curriculum which is accessible to all and that will support and build on previously acquired knowledge and skills. Following the National Curriculum's Programmes of Study we aim to maximise the development of every child's ability and academic achievement by delivering daily lessons that are creative and engaging, building on children's prior knowledge and skills, taught promoting the use of the concrete to pictorial to abstract approach.

We aim to develop children's enjoyment of maths and provide opportunities for children to build a conceptual understanding of maths before applying their knowledge to everyday problems and challenges.

We want our pupils to:

- Become fluent in the fundamentals of mathematics and children are enabled to use written methods accurately.
- Develop conceptual understanding and the ability to recall and apply knowledge rapidly.
- Build upon children's knowledge and understanding from Nursery to year 6
- Develop resilience that enables all children to reason and problem solve with increased confidence and complexity.

Implementation

In EYFS, Nursery follows the new Early Years curriculum objectives and builds in pre-requisite skills for the Reception class. Then when children reach Reception class they begin the Early Years 'White Rose' Maths scheme, which has been linked to the pre-requisite skills ready for Year One. Well planned sequences of learning support children to develop and refine their maths skills and to know more and remember more of their maths.

In Key Stages One and Two, teachers cover objectives set out in the Programmes of Study from the National Curriculum and follow the 'White Rose' schemes of work to reduce teacher workload and support subject knowledge. To ensure full topic coverage, the school uses the 'White Rose' scheme of work supplemented with additional resources from 'Twinkl' in nursery. Our provision for maths includes:

- Daily maths lessons include fluency, reasoning and problem solving.
- Lessons use a 'fluid teaching' format to ensure there is appropriate challenge for all learners. Children working below age expected standard are taught the pre-requisite skills and receive 'booster' sessions to ensure catch up.

- Concrete manipulatives and pictorial representations are used to support conceptual understanding and to make links across topics

At St Joseph's, our approach to the teaching of mathematics develops children's ability to work both independently and collaboratively. We recognise that in order for pupils to progress to deeper and more complex problems, children need to be confident and fluent in Maths, and so all staff ensures that the school's calculation policy is taught and applied.

All maths lessons begin with an Arithmetic/Recap session and conclude with a daily problem that links to the lesson objective, developing an understanding of problem solving in maths. In KS1, children have routine daily Number Sense sessions (from Jan 2022) to improve fluency. Lessons also include daily arithmetic/ times table practice, reviews of previously taught skills, knowledge and vocabulary and opportunities to reason and problem solve. Where possible Maths will be taught through practical application using a cross curricular approach.

Children's progress and attainment are assessed at the end of each 'White Rose' unit and there are additional tests completed by pupils on a termly basis.

In addition half termly book scrutiny allows subject leaders and SLT to acknowledge and respond to strengths and weaknesses in teaching and learning in maths across the school and key stages

Impact

Children at St Joseph's will understand and value the importance of Mathematics and will make good progress so that they are prepared for Key Stage 3.

As a result of good teaching and learning our children will be able to independently apply their mathematical knowledge to a range of increasingly complex problems and in different contexts, using written methods accurately. They will be able to apply their mathematical knowledge across the curriculum and will realise that mathematics plays a vital role in their everyday lives.

As our pupils progress further in their education, we intend for them to be able to understand the world, have the ability to reason mathematically and a sense of enjoyment and curiosity about the subject.