



The Intent, Implementation and Impact of our Mathematics Curriculum

School Mission Statement



St Michael's RC Primary School is a Catholic family of faith, following the teaching of Christ. We strive to create an environment where all members of our school community become caring, independent and resilient individuals who fulfil their potential.

"I came so that you may have life, life in all its fullness" John 10:10

Intent

A good understanding of Mathematics will assist the pupils not solely as a resource for their learning in school but as a vital skill they will continue to use throughout their lives. We intend for children to become able to calculate mentally wherever possible and learn a range of written methods to support themselves independently where this is not possible. It is our intention for children at our school to make links between Maths and real life situations our pupils may face in the future as well as to other areas of the curriculum.

We believe that a good quality Maths education comes from exposure to Mathematical vocabulary and language structures which will allow them to gain a deeper understanding of Maths. We intend to improve pupil's understanding of Maths by exposing all children to reasoning and justification questions in order to gain a greater depth of Maths understanding.

At St. Michael's we recognise that each child has their own starting point upon entry to every year group and progress is measured in line with these starting points to ensure every child can celebrate success.

Implementation

From Nursery all the way to Year 6 all children are exposed to Maths Vocabulary, both written and spoken. All teachers should model a good use of Maths vocabulary through use of an I do, We do, You do approach, where first the teacher will model how to answer a question, talking through their thought process. This is then repeated working collaboratively with the class in the We do step and finally the children have a chance to show their understanding by working independently on this. The language used in this teaching process should be used by teachers every lesson to produce with class their Step's to Success, a list of steps which the children will need to follow during a lesson in order to

be successful during the lesson. This vocabulary will be modelled by all teachers and support staff and will remain visible to children throughout their topics through use of our washing lines and Math's learning walls.

All children daily will have a chance to work on their written and mental calculations through use of fluent in 5 across the school, this will allow the children to independently decide on whether they wish to use mental or written strategies to solve calculations and begin to think where both are appropriate.

Activities at St Michaels differentiated to suite, but not stifle, the children's abilities, we believe that all children should be exposed to reasoning and problem solving within each lesson, to ensure depth and breadth of the curriculum. Again, vocabulary during these activities is key. It isn't just about getting the answer right, it is about how they have reasoned and explained how they have achieved this.

Every child at St Michael's has the opportunity to apply the Maths skills they have developed to real-life situations/ scenarios in order the children themselves to see the future applications for the skills which they are developing in school.

Impact

The skills children have learnt during their Maths lessons at St Michaels should allow them to continue to reason and justify their answers in all areas of life moving forward and begin to back up their opinions using evidence and examples. Children will have developed their ability to work logically, by breaking down bigger problems into smaller and more achievable steps. We aim at St Michaels for our pupils to be passionate about their Maths learning and leave with the skills not only to prepare them for future education but to help them throughout their entire lives.