Mathematics Curriculum

Intent

Mathematics is important in everyday life. It is used to analyse and communicate information and ideas and to tackle a range of practical tasks and real life problems and, with this is mind, the purpose of Mathematics at St Cuthbert's Primary School is to develop an ability to solve problems, to reason, to think logically and to work systematically and accurately. All children are challenged and encouraged to excel in Maths. Children engage with discussion about maths, explaining their thinking using mathematical vocabulary. New mathematical concepts are introduced using a 'Concrete, Pictorial and Abstract' approach; enabling all children to experience hands-on learning when discovering new mathematical topics, and allows them to have clear models and images to aid their understanding. Arithmetic and basic math skills are practised daily to ensure key mathematical concepts are embedded and children can recall this information to see the links between topics in Maths. We aim to present maths as challenging, exciting, creative and relevant and promote a positive and confident attitude.

Implementation

In Early Years, the Developmental Matters Curriculum is followed. In Years 1-6, White Rose scheme of progression in maths is followed which is enhanced by a wide range of resources. Teachers know which objectives must be taught and assessed in each year group and can follow progressive small steps to ensure children have a comprehensive understanding of maths. We use differentiated tasks to achieve the White Rose small steps. Basic Maths skills are taught daily through 'Daily Maths Meeting', focussing on key mathematical skills including place value, the four operations and fractions. This may be in the form of a timed test where the children repeat the test several times to 'beat their score!' Children are taught through targeted differentiated small group and mixed ability whole class lessons. Lessons use a Concrete, Pictorial and Abstract approach to guide children through their understanding of mathematical processes. A range of resources are used to challenge all children and give them the opportunity aid their maths understanding and support them to complete their task independently. 'Memory Jogger' consolidation sessions are used to revisit previous learning and ensure Maths skills is embedded. Homework is set to develop and review children's learning and where possible, links are made with other subjects across the curriculum.

Impact

The impact of our mathematics curriculum is that our children, across all abilities, move through the curriculum at a similar pace. Children are able to engage with mathematical discussions and make links between different domains of their learning. They become confident children who can all talk about Maths and their learning and the links between Mathematical topics. Children take part in engaging lessons and are challenged to constantly strive to achieve. Teachers are encouraged to use their professional judgement at all times, meaning that children are given sufficient time to learn and practise each area of maths before they progress to a different domain. Learning is tracked and monitored to ensure all children make good progress. Formative assessment allows teachers the flexibility to intervene in a lesson to remind, redirect or re-teach pupils as required. We use a range of

activities showing evidence of fluency, reasoning and problem solving. As a result of our maths teaching, feedback, support and interventions, children at St Cuthbert's Primary School to strive to be the best mathematicians they can be and leave the school achieving their full potential with the skills required as they move toward adulthood.