



Curriculum Statement and Vision



Mathematics

For which of you, desiring to build a tower, does not first sit down and count the cost, whether he has enough to complete it?

Luke 14:28

Good mathematics is not about how many answers you know... it's about how you behave when you don't know. Albert Einstein

Intent

Basic skills of mathematics are vital for the life opportunities of our children, it is important they understand the importance of mathematics for every-day life. We encourage children to develop their knowledge, skills and understanding of mathematics and aim for all pupils to enjoy and achieve in mathematics and become confident mathematicians. We ensure children have transferable mathematical skills, leading them to have an ability to reason and solve problems. We hope children experience a sense of awe and wonder as they solve problems, discover a solution and make links between different areas of mathematics. Maths is a journey and long-term goal, achieved through exploration, clarification, practise and approaching a variety of mathematical opportunities, which enables them to make connections in learning needed to enjoy greater depth.

Implementation

We provide children with the opportunity to explore mathematics using a range of concrete, abstract and pictorial resources. Each classroom has a range of resources to support learning. Ensure children have access to a high quality maths curriculum that is both challenging and fun, encouraging children to be confident mathematicians who are not afraid to take risks. We currently do continuous formative assessment and complete summative assessment every term to inform us of the children's next steps and misconceptions. Teachers understand where their children need to be, through secure subject knowledge and having high expectations for every child. We following the busy ants scheme to help with planning of the objectives and skills progression. Children are given time to practice and perfect their calculation strategies including giving pupils opportunity to make appropriate decisions when estimating, calculating and evaluating the effectiveness of their chosen methods. To ensure consistency throughout the school, every classroom follows the school calculation policy.



Impact

For all of the above to have impact, children need to have a good growth mind set. Children 'have a go' and choose, themselves, the resources they require to help them learn along with the strategies they think are best suited for them and each problem. Children are developing skills in being articulate and are able to verbally, pictorially and in written form reason well. Our maths books are packed with a range of activities showing evidence of fluency, reasoning and problem solving. Our feedback and interventions are supporting children to strive to be the best mathematicians they can be.

Supporting vulnerable learners

We ensure that all children access quality teaching and all teachers have high aspirations of every pupil. We aspire for all children to reach and exceed their full potential and put extra support or practise in place if we feel that children are finding an aspect of mathematics challenging, as well as allowing them to have access to arrange of resources to help them.

Why is maths important to us?

Maths is needed for every-day life and we aim to provide children with the opportunities to understand this for themselves. Mathematics provides an effective way to build resilience and determination. We want children to have a 'love' for mathematics, and create a positive attitude throughout the school.

How do we use our curriculum drivers to improve our maths learning?

Each class will complete a maths investigation outdoors every term. Countries use different maths strategies, these will be explored when appropriate to broaden the children's understanding. We will encourage children to have learning partners for support and approach maths problems.