



Vision for Mathematics

Mathematics makes a significant contribution to modern society and at Brookside we consider it to be vital for the life opportunities of our children. We strive to enable fascination and an excitement to discover mathematical concepts and to broaden children's knowledge and understanding of how mathematics is used in the wider world.

At Brookside we ensure children have transferable mathematical skills, the ability to reason and solve problems, and a well-developed vocabulary. We believe that the language of mathematics is international, the subject transcends cultural boundaries and its importance is universally recognised. We provide children with the opportunity to explore mathematics using a range of concrete, pictorial and abstract resources. By using the five big ideas in maths: coherence, representation and structure, mathematical thinking, variation and fluency we ensure that a mastery curriculum is embedded into the children's inquisitive minds. In this way, the learning will be retained and many of our children will have a greater depth knowledge of the subject. At Brookside, White Rose, in conjunction with other resources, is used as this is the approved mastery approach and gives the children the best access to a mastery curriculum.

Solving problems using numerical fluency is the basis of our mathematical lessons. We hope children experience a sense of awe and wonder as they solve a problem for the first time, discover a more elegant solution and make links between different areas of mathematics. We ensure that children leave Brookside with a logical and creative number fluency and with an ability to recall key number facts. We place a huge emphasis on multiplication tables and ensure that children know the appropriate multiplication and division facts for their year group. This is achieved by a variety of methods, resources and online apps. We know that this is the strongest foundation we can give our children as their use of mathematics becomes more sophisticated.

We strive at Brookside to ensure children are curious, ask questions and ultimately enjoy their maths lessons. Skills for learning are a high priority. For example being able to explain ideas and respond to feedback from teachers and peers are crucial to our curriculum. Being confident, resilient, able to persevere and show determination is at the core of what we want to achieve. After all, mathematics helps us to understand and change the world.

Each and every child will be given an equal opportunity to be successful. We ensure that all children access quality first teaching and all teachers have high aspirations of every pupil. We aspire for all children to reach and exceed their full potential and take necessary precautions if we feel that children are finding an aspect of mathematics challenging. At Brookside, we pride ourselves on being an inclusive school where everyone is made to feel welcome. It is implicit to our curriculum design that all children, including those with SEND, have full access to the maths curriculum. We encourage children to be actively involved in their own learning, integrating what they have been taught with their own experiences. We strive to provide a happy, supportive and inclusive environment in which all children become independent and confident learners and achievers in a continually changing world. By having these clear expectations, we are confident that every child will have the very best opportunity to succeed.