MATHEMATICS intent, vision and drivers

At Scotforth St Paul's CE Primary and Nursery School, our vision flows through everything we do because we want the very best for all of our children. We provide a broad and balanced curriculum that is inclusive and accessible to all, with a clear progression so that children can build on previous learning and make links to help them develop key skills and knowledge.

Intent for Mathematics

Mathematics is a tool for everyday life. It is a journey through a whole network of concepts and relationships which provide a way of viewing and making sense of the world. Mathematics knowledge and skills develop over time and at each stage of learning, children should be able to demonstrate a deep, conceptual understanding of the topic. The ability to communicate mathematically is crucial and children are asked to explain their thinking verbally and in writing across all stages of their learning journey, only progressing to the more formal written methods when they are ready to do so.

Scotforth St Paul's CE Primary and Nursery School Vision

Learning, growing and caring as part of God's family.

Jesus (the gardener) nourishes and tends us as we learn and grow, so that we can all flourish. As a vine, we are one, but all unique and special to Him. We care for each other, as God cares for us.

Our vision helps us see that whatever subject we are studying, we can **learn** new skills and knowledge, **grow** as a well rounded person and **care** for ourselves, others and the world, as part of God's family.		
Learning in Mathematics	Growing in Mathematics	Caring in Mathematics
When our children first start school, much of their learning in maths is achieved through play. The children across school learn about number, the four operations, money, shape, measures, time, position, fractions, decimals, percentages and algebra. The ability to talk about our maths is crucial and children are encouraged to use a wide range of mathematical vocabulary when explaining their thinking and solving problems. Children also need to develop a wide repertoire of known recall facts.	Our learning in maths helps to prepare us for our lives as adults. Concepts such as money, measures and time are taught throughout school. The more general skills needed to be a good mathematician, including the ability to persevere, solve problems and explain ourselves are also tantamount to successful living as adults.	As mathematicians we talk to each other in every lesson. Explaining our thinking, how to use different methods and the steps we have taken to solve a particular problem are fundamental parts of the learning process. All children therefore need to listen carefully and respond appropriately to what others say. Making mistakes is important and learning how to respond to others who have made mistakes is critical. Maths should provide opportunitites to learn from mistakes in a safe and productive way.

When revising our curriculum and making it the best possible for the children at Scotforth St Paul's, we identified certain drivers: resilience, independence, local heritage and the wider society. Below are examples of how these can be focused on within Mathematics.

Resilience	Independence	Local Heritage	Wider World
Learning new things in any subject can be challenging and this is also true in maths. Tackling problems is an integral part of our maths curriculum and we must learn to persevere, try new and different approaches, and make mistakes in order to become successful mathematicians.	The ability to work independently is as crucial as the ability to work as part of a team or with a partner in maths. Some knowledge such as number bonds to 10 or 100, and the multiplication tables must be learnt by all children. Our speedy maths and times tables trail quizzes provide the perfect opportunity to showcase our excellent independent recall skills in maths.	Our local area and in particular our school are very important to us and we try to make as many links with maths as we can whilst studying it. Activities based around maps, using aerial views and co-ordinates all provide real life examples of how maths is present in everyday life. Studying changes over time also provides the perfect opportunity to apply our maths skills.	Our world is a wonderful place and maths is the key to explain it. Without maths, the world simply would not make sense. It is part of our everyday lives and is so prevalent, we often don't even realise that what we are seeing, doing and being is actually 'maths'.