

## Mathematics – Intent, Implementation and Impact

**“Mathematics is the most beautiful and the most powerful creation of the human spirit.”**

**Stefan Banach**

### Mathematics - Intent

It is our intention for every child at Thwaites School to be successful in maths. This means they are confident in their mathematical knowledge and skills and are able to apply this to mathematical problem-solving through a variety of strategies and methods ensuring all children reach their full mathematical potential. Through a Maths Mastery approach, we wish to equip children with a mathematical ‘tool-box’ of methods and strategies that can be used to solve problems and empower them with the confidence to correctly identify and apply methods and strategies from their ‘tool-box’ using concrete, pictorial or abstract approaches to solve problems, knowing that they can take any ‘path’ to a solution depending on their preferred approach. Children will be able to articulate their reasoning and explain their methods and strategies in solving problems demonstrating their mathematical thinking through the correct use of mathematical vocabulary.

### Mathematics – Implementation

The Thwaites School curriculum guarantees a consistent approach through the school. Children’s familiarity of our mathematical approach ensures smooth transitions from one year to the next, allowing teachers to begin building on prior knowledge as soon as a child enters their class. Mathematics is taught following the White Rose Maths scheme across the whole school and a mastery approach using concrete resources and pictorial and abstract representations ensures all children, regardless of ability, find maths enjoyable and challenging. Teachers use ongoing assessment to inform planning of daily lessons and to identify misconceptions or gaps in learning, leading to carefully planned and delivered interventions, allowing children to catch-up to their peers quickly. High-quality support appropriate for different learning styles and varying levels of attainment, using mathematical questioning, creates fruitful opportunities for learning.

## Mathematics - Impact

Children demonstrate a love and enthusiasm for mathematics that creates a 'buzz' around the subject. Children present as confident masters of mathematics who are able to select from a 'tool-box' of concrete, pictorial or abstract methods and strategies to find solutions to mathematical problems, assured that their 'path' to finding a solution is valid. Children across the school meet their full individual potential, making good or better progress which is evident in books, standardised tests and pupil voice.

