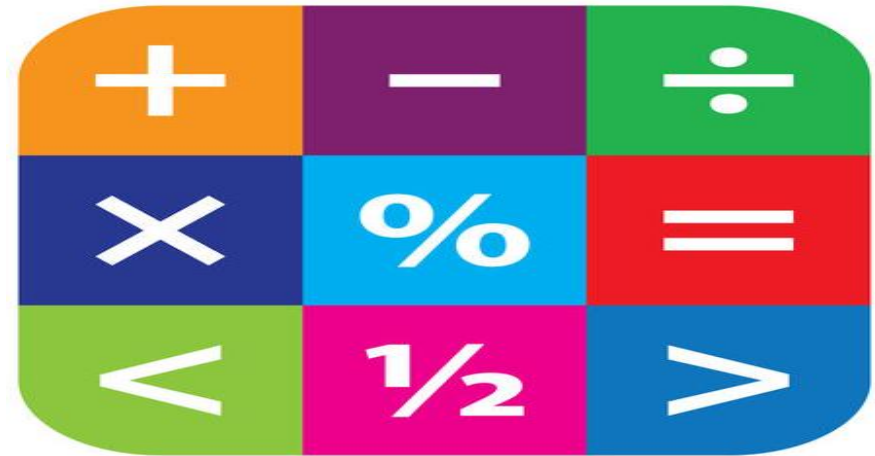


# Maths



Mathematics is an important, creative and highly interconnected discipline, that helps us to understand and change the world. At Shield Row Primary School, we want all pupils to experience the beauty, power and enjoyment of this subject, whilst developing their natural curiosity and enhancing their resilience, so they become 'deep thinkers'. We foster positive attitudes to learning as we believe all children can achieve in mathematics. Engaging lessons teach for secure and deep understanding of mathematical concepts through manageable steps. We use mistakes and misconceptions as an essential part of learning and provide challenge through rich and sophisticated problems. At our school, we aim for pupils to become true masters of their year group content, applying and being creative with new knowledge in multiple ways. We intend for all pupils to:

- Become fluent in the fundamentals of mathematics so that they develop conceptual understanding and the ability to recall and apply knowledge rapidly and accurately;
- Be able to solve problems by applying their mathematics to a variety of problems with increasing sophistication, including in unfamiliar contexts and to model real-life scenarios;
- Reason mathematically by following a line of enquiry and develop and present a justification, argument or proof using mathematical language;
- Have an appreciation of number and number operations, which enables mental calculations and written procedures to be performed efficiently, fluently and accurately to be successful in mathematics.



	Year 1	Year 2/3	Year 3/4	Year 5	Year 6
Autumn	Place Value (to 20) Addition & Subtraction Geometry: 2d and 3d Shape Measures: Time Sequencing Problem Solving: Trial & Improvement; Finding all Possibilities	Place Value (100/1,000) Addition & Subtraction (including Money) Multiplication Problem Solving: Trial & Improvement; Finding all Possibilities	Place Value (1,000/10,000) Addition & Subtraction Multiplication & Division (tables facts) Problem Solving: Trial & Improvement; Finding all Possibilities	Place Value (to 1,000,000) Addition & Subtraction Statistics Multiplication & Division Measures: Perimeter & Area Problem Solving: Trial & Improvement; Finding all Possibilities	Place value (to 10,000,000) Addition & Subtraction Multiplication & Division Fractions Decimals Problem Solving: Trial & Improvement; Finding all Possibilities
Spring	Place Value (to 50) Multiplication & Division Fractions Length & Height Weight Volume & Capacity Problem Solving: Number Patterns & Working Backwards	Division Statistics Measures: Length & Height Geometry: Shape; Position & Direction/Perimeter Fractions	Multiplication & Division (formal) Measures: Length, Perimeter & Area Fractions Y3 Measures: Mass & Capacity/ Y4 Number: Decimals Problem Solving: Number Patterns & Working Backwards	Multiplication & Division: Formal Methods Fractions Decimals & Percentages Problem Solving: Number Patterns & Working Backwards	Percentages Consolidation: Fractions, Decimals & Percentages Statistics Measures: Perimeter, Area & Volume Measures: Converting Units Geometry: Position & Direction
Summer	Place Value (within 100) Measures: Money Measures: Time Geometry: Position & Direction Consolidation Investigations Problem Solving: Visualising; Conjecturing & Verifying	Measures: Time Problem Solving & Efficient Methods Problem Solving: Number Patterns & Working Backwards Measures: Mass, Capacity & <i>Temperature</i> Consolidation & Investigations Problem Solving: Visualising; Conjecturing & Generalising	Decimals (including Money) Measures: Time Statistics Geometry: Properties of Shape; <i>Position &amp; Direction</i> Problem Solving: Visualising; Conjecturing & Generalising	Decimals: Add & Subtract; Multiply & Divide by 10, 100, 1,000 Geometry: Properties of Shape Geometry: Position & Direction Measures: Converting Units Measures: Volume Problem Solving: Visualising; Conjecturing & Generalising	Algebra Ratio Geometry: Properties of Shape Problem Solving: Number Patterns & Working Backwards Investigations Problem Solving: Visualising; Conjecturing & Generalising