



## **Characteristics**

- An understanding of the important concepts and an ability to make connections within mathematics.
- A broad range of skills in using and applying mathematics.
- Fluent knowledge and recall of number facts and the number system.
- The ability to show initiative in solving problems in a wide range of contexts, including the new or unusual.
- The ability to think independently and to persevere when faced with challenges, showing a confidence of success.
- The ability to embrace the value of learning from mistakes and false starts.
- The ability to reason, generalise and make sense of solutions.
- Fluency in performing written and mental calculations and mathematical techniques.
- A wide range of mathematical vocabulary.
- A commitment to and passion for the subject.

Key Stage 1	Key Stage 2			
• Count and calculate in a range of practical contexts.• Use and apply mathematics in everyday activities and across the curriculum.	• Count and calculate in increasingly complex contexts, including those that cannot be experienced first hand.			
<ul> <li>Repeat key concepts in many different practical ways to secure retention.</li> </ul>	• Rigorously apply mathematical knowledge across the curriculum, in particular in science, technology and computing.			
• Explore numbers and place value up to at least 100.	• Deepen conceptual understanding of mathematics by			
<ul> <li>Add and subtract using mental and formal written methods in practical contexts.</li> </ul>	of engaging and purposeful contexts.			
<ul> <li>Multiply and divide using mental and formal written methods in practical contexts.</li> </ul>	• Explore numbers and place value so as to read and understand the value of all numbers.			
• Explore the properties of shapes.	<ul> <li>Add and subtract using efficient mental and formal written methods.</li> </ul>			
• Use language to describe position, direction and movement.	• Multiply and divide using efficient mental and formal written methods.			
• Use and apply in practical contexts a range of measures, including time.	• Use the properties of shapes and angles in increasingly complex and practical contexts, including in construction and			
Handle data in practical contexts.	engineering contexts.			
	• Describe position, direction and movement in increasingly precise ways.			
	• Use and apply measures to increasingly complex contexts.			
	• Gather, organise and interrogate data.			
	• Understand the practical value of using algebra.			

## **Broad Learning Objectives**

- To know and use numbers
- To add and subtract
- To multiply and divide
- To use fractions
- To understand the properties of shapes
- To describe position, direction and movement
- To use measures
- To use statistics
- To use algebra

MATHS YR 2									
Number –	Number –	Number –	Number –	Measurement	Geometry –	Geometry –	Statistics		
Number	Addition and	Multiplication	fractions		Properties of	Position and			
and Place Value	subtraction	and			shape	direction			
	Saberaction	division			Shape	un cotion			
Pupils should be taught	Pupils should be taught to:	Pupils should be taught	Pupils should be	Pupils should be taught to:	Pupils should be taught	Pupils should be	Pupils should be		
Pupils should be taught to:Pto:•• count in steps of 2, 3, and 5 from 0, and in tens from any number, forward and backward•• recognise the place value of each digit in a two-digit number (tens, ones)•• identify, represent and estimate numbers using different representations, including the number (time•• compare and order numbers from 0 up to 100; use <, > and =•	Pupils should be taught to: • solve problems with addition and subtraction: • using concrete objects and pictorial representations, including those involving numbers, quantities and measures • applying their increasing knowledge of mental and written methods • recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100 • add and subtract numbers using concrete objects, pictorial representations, and mentally, including: • a two-digit number • and total	Pupils should be taught to:       Putation         • recall and use       • multiplication and         division facts for the 2, 5 and 10 multiplication       and         tables, including       1, recognising odd and       and         even numbers       lee         • calculate       of         multiplication and       •         division within the multiplication tables       fr         and write them using       the multiplication (_), division (÷) and equals       1, deven uses	Pupils should be taught to: • recognise, find, name and write fractions 1/3 ¼ 2/4, and 3/4 of a length, shape, set of objects or quantity • write simple fractions for example, 1/2 of 6 = 3 and recognise the equivalence of 2/4 and 1/2	Pupils should be taught to: • choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm); mass (kg/g); temperature (°C); capacity (litres/ml) to the nearest appropriate unit, using rulers, scales, thermometers and measuring vessels • compare and order lengths, mass, volume/capacity and record the results using >, < and = • recognise and use symbols for pounds (£) and pence (p); combine amounts to make a particular	Pupils should be taught to: • identify and describe the properties of 2-D shapes, including the number of sides and line symmetry in a vertical line • identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces • identify 2-D shapes on the surface of 3-D shapes [for example, a circle on a cylinder and a triangle on a pyramid]	Pupils should be taught to: • order and arrange combinations of mathematical objects in patterns and sequences • use mathematical vocabulary to describe position, direction and movement, including movement in a straight line and distinguishing between rotation as	Pupils should be taught to: • interpret and construct simple pictograms, tally charts, block diagrams and simple tables • ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity • ask and answer questions about totalling and comparing categorical		
signs • read and write numbers to at least 100 in numerals and in words • use place value and number facts to solve problems.	and tens • two two-digit numbers • adding three one-digit numbers • show that addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot • recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems.	<ul> <li>show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot</li> <li>solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts.</li> </ul>	2/4and ½	value • find different combinations of coins that equal the same amounts of money • solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change • compare and sequence intervals of time • tell and write the time to five minutes, including quarter past/to the hour and draw the hands on a clock face to show these times • know the number of minutes in an hour and the number of hours in a day.	• compare and sort common 2-D and 3-D shapes and everyday objects.	a turn and in terms of right angles for quarter, half and three-quarter turns (clockwise and anticlockwise	data.		