



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.			
 Repeat key concepts in many different practical ways to secure retention. 	• 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 frequent repetition and extension of key concepts in a range of engaging and purposeful contexts. 			
 Add and subtract using mental and formal written methods in practical contexts. 				
 Multiply and divide using mental and formal written methods in practical contexts. 	• Explore numbers and place value so as to read and understand the value of all numbers.			
• Explore the properties of shapes.	 Add and subtract using efficient mental and formal written methods. 			
• 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			
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 3								
Number – Number	Number –	Number –	Number – fractions	Measurement	Geometry –	Geometry	Statistics	
and Place Value	Addition and	Multiplication			Properties of	-		
	subtraction	and			shape	Position		
		division				and		
						direction		
 count from 0 in multiples of 4, 8, 50 and 100; find 10 or 100 more or less than a given number recognise the place 	 add and subtract numbers mentally, including: a three-digit number and ones a three-digit number 	 recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables 	 count up and down in tenths; recognise that tenths arise from dividing an object into 10 equal parts and in dividing one-digit 	 measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml) measure the 	 to: draw 2-D shapes and make 3-D shapes using modelling materials; recognise 3-D shapes in 		 interpret and present data using bar charts, pictograms and tables solve one-step and two-step questions [for example, 'How 	
value of each digit in a three-digit number (hundreds, tens, ones) • compare and order numbers up to 1000 • identify, represent and estimate numbers using different representations • read and write numbers up to 1000 in numerals and in words • solve number problems and practical problems involving these ideas.	and tens • a three-digit number and hundreds • add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction • estimate the answer to a calculation and use inverse operations to check answers • solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction.	 write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times onedigit numbers, using mental and progressing to formal written methods solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which n objects are connected 	numbers or quantities by 10 • recognise, find and write fractions of a discrete set of objects: unit fractions and nonunit fractions with small denominators • recognise and use fractions as numbers: unit fractions and nonunit fractions with small denominators • recognise and show, using diagrams, equivalent fractions with small denominators • add and subtract fractions with the same denominator within one whole [for example, 5/7 1/7 6/7 • compare and order unit	 perimeter of simple 2- D shapes add and subtract amounts of money to give change, using both £ and p in practical contexts tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour clocks estimate and read time with increasing accuracy to the nearest minute; record and compare time in terms of seconds, minutes and hours; use vocabulary such as o'clock, a.m./p.m., morning, afternoon, noon and midnight know the number of 	different orientations and describe them • recognise angles as a property of shape or a description of a turn • identify right angles, recognise that two right angles make a half-turn, three make three quarters of a turn and four a complete turn; identify whether angles are greater than or less than a right angle • identify horizontal and vertical lines and pairs of perpendicular and parallel lines.		many more?' and 'How many fewer?'] using information presented in scaled bar charts and pictograms and tables.	
			fractions, and fractions with the same denominators • solve problems that involve all of the above	seconds in a minute and the number of days in each month, year and leap year • compare durations of events [for example to calculate the time taken by particular events or tasks].				