

## Bradley Primary School Maths Curriculum 2022-2023

Year 4	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7
Autumn 1	Place value						Addition and Subtraction
	<ul style="list-style-type: none"> <li>Count in multiples of 6, 7, 9, 25 and 1000.</li> <li><i>Read and write numbers to at least 10 000.</i></li> <li>Recognise the place value of each digit in a four-digit number.</li> <li><i>Partition numbers in different ways</i></li> <li>Identify, represent and estimate numbers using different representations (<i>including the number line</i>).</li> <li>Order and compare numbers beyond 1000.</li> <li>Find 1, 10, 100 or 1000 more or less than a given number.</li> <li>Round any number to the nearest 10, 100 or 1000.</li> <li>Find the effect of dividing a one- or two-digit number by 10 and 100, identifying the value of the digits in the answer.</li> <li>Read Roman numerals to 100 and know that over time, the numeral system changed to include the concept of zero and place value.</li> <li>Solve number and practical problems that involve all of the above and with increasingly large positive numbers.</li> </ul>						
Autumn 2	Addition and Subtraction					Area	
	<ul style="list-style-type: none"> <li><i>Choose an appropriate strategy to solve a calculation based upon the numbers involved (recall a known fact, calculate mentally, use a jotting, written method).</i></li> <li><i>Select a mental strategy appropriate for the numbers involved in the calculation.</i></li> <li><i>Recall and use addition and subtraction facts for 100. TO BE TAUGHT ALONGSIDE PLACE VALUE Recall and use addition and subtraction facts for multiples of 100 totalling 1000.(PV)</i></li> <li><i>Add and subtract mentally combinations of two and three digit numbers</i></li> <li>Add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate.</li> <li>Estimate; use inverse operations to check answers to a calculation.</li> <li>Solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why.</li> <li><i>Solve addition and subtraction problems involving missing numbers.</i></li> <li>Estimate; use inverse operations to check answers to a calculation</li> </ul>					<ul style="list-style-type: none"> <li><i>Know area is a measure of surface within a given boundary.</i></li> <li>Find the area of rectilinear shapes by counting squares.</li> <li>Measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres.</li> </ul>	
Spring 1	Multiplication and Division						
	<ul style="list-style-type: none"> <li><i>Choose an appropriate strategy to solve a calculation based upon the numbers involved (recall a known fact, calculate mentally, use a jotting, written method).</i></li> <li>Recognise and use factor pairs and commutativity in mental calculations.</li> <li>Recall multiplication and division facts for multiplication tables up to <math>12 \times 12</math>.</li> <li><i>Use partitioning to double or halve any number.</i></li> <li>Use place value, known and derived facts to multiply and divide mentally, including:               <ul style="list-style-type: none"> <li>- multiplying by 0 and 1.</li> <li>- dividing by 1.</li> <li>- multiplying together three numbers.</li> </ul> </li> <li>Multiply two-digit and three-digit numbers by a one-digit number using formal written layout.</li> <li><i>Divide numbers up to 3 digits by a one-digit number using the formal written method of short division and interpret remainders appropriately for the context.</i></li> <li><i>Use estimation and inverse to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy.</i></li> </ul> <p>Solve problems involving multiplying and adding, including using the distributive law to multiply two digit numbers by one digit, <i>division (including interpreting remainders)</i>, integer scaling problems and harder correspondence problems such as n objects are connected to m objects.</p>						
Spring 2	Fractions						

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	<ul style="list-style-type: none"><li>▪ Understand that a fraction is one whole number divided by another (e.g. <math>\frac{3}{4}</math> can be interpreted as <math>3 \div 4</math>).</li><li>▪ Recognise, find and write fractions of a discrete set of objects including those with a range of numerators and denominators.</li><li>▪ Count on and back in steps of unit fractions.</li><li>▪ Compare and order unit fractions and fractions with the same denominators (including on a number line).</li><li>▪ Recognise and show, using diagrams, families of common equivalent fractions.</li><li>▪ Add and subtract fractions with the same denominator (using diagrams).</li><li>▪ Solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number.</li></ul> Solve simple measure and money problems involving fractions and decimals to two decimal places.			
Summer 1	Decimals			
	<ul style="list-style-type: none"><li>▪ Count up and down in hundredths.</li></ul> Read and write numbers with up to two decimal places <ul style="list-style-type: none"><li>▪ Identify the value of each digit to two decimal places.</li><li>▪ Partition numbers in different ways (e.g. <math>2.3 = 2+0.3</math> &amp; <math>1+1.3</math>).</li><li>▪ Identify, represent and estimate numbers using different representations (including the number line).</li><li>▪ Order and compare numbers with the same number of decimal places up to two decimal places.</li><li>▪ Find 0.1 more or less than a given number.</li><li>▪ Round decimals (one decimal place) to the nearest whole number.</li><li>▪ Describe and extend number sequences involving counting on or back in different steps, including sequences with multiplication and division steps.</li><li>▪ Derive and use addition and subtraction facts for 1 and 10 (with decimal numbers to one decimal place).</li><li>▪ Add and subtract mentally combinations of two and three digit numbers and decimals to one decimal place.</li><li>▪ Add and subtract numbers with up to 4 digits and decimals with one decimal place using the formal written methods of columnar addition and subtraction where appropriate.</li><li>▪ Use partitioning to double or halve any number, including decimals to one decimal place.</li><li>▪ Recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten.</li><li>▪ Recognise and write decimal equivalents of any number of tenths or hundredths.</li><li>▪ Recognise and write decimal equivalents to <math>\frac{1}{4}</math>, <math>\frac{1}{2}</math>, <math>\frac{3}{4}</math>.</li></ul>			
Summer 2	Geometry – Properties of Shape	Geometry – position and direction	Statistics	
	<ul style="list-style-type: none"><li>▪ Compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes.</li><li>▪ Identify lines of symmetry in 2-D shapes presented in different orientations.</li><li>▪ Complete a simple symmetric figure with respect to a specific line of symmetry.</li><li>▪ Continue to identify horizontal and vertical lines and pairs of perpendicular and parallel lines.</li></ul> Identify acute and obtuse angles and compare and order angles up to two right angles by size.	<ul style="list-style-type: none"><li>▪ Compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes.</li><li>▪ Identify lines of symmetry in 2-D shapes presented in different orientations.</li><li>▪ Complete a simple symmetric figure with respect to a specific line of symmetry.</li><li>▪ Continue to identify horizontal and vertical lines and pairs of perpendicular and parallel lines.</li></ul> Identify acute and obtuse angles and compare and order angles up to two right angles by size.	<ul style="list-style-type: none"><li>▪ Use a variety of sorting diagrams to compare and classify numbers and geometric shapes based on their properties and sizes.</li><li>▪ Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts, time graphs.</li></ul> Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs.	