

St James Maths Long Term Plan

Black – Unit name

Blue – Statements to teach from progression document

Red – Statement from National Curriculum to teach or use for planning purposes.

Green – Links to the Mathematics Guidance

	Autumn 1 (7)	Autumn 2 (7)	Spring 1 (5)	Spring 2 (6)	Summer 1 (6)	Summer 2 (6)
<p>Year 4</p> <p>The principal focus of mathematics teaching in lower key stage 2 is to ensure that pupils become increasingly fluent with whole numbers and the four operations, including number facts and the concept of place value. This should ensure that pupils develop efficient written and mental methods and perform calculations accurately with increasingly large whole numbers. At this stage, pupils should develop their ability to solve a range of problems, including with simple fractions and decimal place value. Teaching should also ensure that pupils draw with increasing</p>	<p>Number: Place Value</p> <ul style="list-style-type: none"> - <i>Count in multiples of 25 and 100 [4NPV-1]</i> - <i>count in multiples of 1000</i> - <i>count in multiples of 6, 7 and 9</i> <p>Measurement: Length and Perimeter</p> <ul style="list-style-type: none"> - <i>calculate different measures of height and length</i> <p>Number: Multiplication and Division</p>	<p>Number: Place Value</p> <ul style="list-style-type: none"> - <i>recognise the place value of each digit in a four-digit number (thousands, hundreds, tens, and ones) [4NPV-2]</i> - <i>find 1000 more or less than a given number [4NPV-3]</i> <p>Number: Addition and Subtraction</p> <ul style="list-style-type: none"> - <i>add numbers with up to 4 digits using the formal written methods of columnar</i> 	<p>Number: Place Value</p> <ul style="list-style-type: none"> - <i>order and compare numbers beyond 1000</i> <p>Number: Addition and Subtraction</p> <ul style="list-style-type: none"> - <i>add numbers with renaming with up to 4 digits using the formal written methods of columnar addition where appropriate</i> <p>Number: Multiplication and Division</p> <ul style="list-style-type: none"> - <i>recall and use multiplication and division facts</i> 	<p>Number: Place Value</p> <ul style="list-style-type: none"> - <i>round any number to the nearest 10, 100 or 1000</i> - <i>identify, represent and estimate numbers using different representations</i> <p>Number: Addition and Subtraction</p> <ul style="list-style-type: none"> - <i>subtract numbers with up to 4 digits using the formal written methods of columnar subtraction where appropriate</i> 	<p>Number: Place Value</p> <ul style="list-style-type: none"> - <i>count backwards through zero to include negative numbers</i> <p>Number: Addition and subtraction</p> <ul style="list-style-type: none"> - <i>subtract numbers with renaming with up to 4 digits using the formal written methods of columnar subtraction where appropriate</i> <p>Measurement: Length and perimeter</p>	<p>Number: Place Value</p> <ul style="list-style-type: none"> - <i>read Roman numerals to 100 (I to C) and know that over time, the numeral system changed to include the concept of zero and place value.</i> <p>Number Multiplication and Division</p> <ul style="list-style-type: none"> - <i>multiply three-digit numbers by a one-digit number using formal written layout</i> <p>Measurement: Area</p>

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<p>accuracy and develop mathematical reasoning so they can analyse shapes and their properties, and confidently describe the relationships between them. It should ensure that they can use measuring instruments with accuracy and make connections between measure and number.</p> <p>[4NF-2 – Taught in Y5] [4MD-1 – Taught in Y5]</p>	<ul style="list-style-type: none"> - <i>use place value, known and derived facts to multiply mentally, including: multiplying by 0 and 1; [4MD-3]</i> - <i>[MG – Divide 1000 into 2,4 5 and 10 equal parts, and read scaled/number lines marked in multiple of 1,000 with 2,4,5 and 10 equal parts 4NPV-4]</i> - <i>recall and use multiplication and division facts for the 6 multiplication tables [4NF-1]</i> <p>Number: Fractions</p>	<p><i>addition where appropriate</i></p> <p>Number: Multiplication and Division</p> <ul style="list-style-type: none"> - <i>recall and use multiplication and division facts for the 7 multiplication tables [4NF-1]</i> - <i>recall and use multiplication and division facts for the 11 multiplication tables [4NF-1]</i> <p>Number: Fractions</p> <ul style="list-style-type: none"> - <i>recognise and show, using diagrams, families of</i> 	<p><i>for the 12 multiplication tables [4NF-1]</i></p> <p>Number: Decimals</p> <ul style="list-style-type: none"> - <i>recognise and write decimal equivalents of any number of tenths or hundredths</i> <p>Geometry: Position and Direction</p> <ul style="list-style-type: none"> - <i>describe positions on a 2-D grid as coordinates in the first quadrant [4G-1]</i> 	<p>Measurement: Length and Perimeter</p> <ul style="list-style-type: none"> - <i>measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres</i> <p>Number: Multiplication and Division</p> <ul style="list-style-type: none"> - <i>multiply two-digit numbers by a one-digit number using formal written layout</i> <p>Number: Fractions</p> <ul style="list-style-type: none"> - <i>add fractions with the same denominator</i> 	<ul style="list-style-type: none"> - <i>convert between different units of length</i> <p>Number: Multiplication and Division</p> <ul style="list-style-type: none"> - <i>use place value, known and derived facts to multiply mentally, including: multiplying together three numbers [4MD-2]</i> <p>Number: Fractions</p> <ul style="list-style-type: none"> - <i>subtract fractions with the same denominator</i> <p>Number: Decimals</p>	<ul style="list-style-type: none"> - <i>find the area of rectilinear shapes by counting squares</i> <p>Number: Decimals</p> <ul style="list-style-type: none"> - <i>round decimals with one decimal place to the nearest whole number</i> <p>Measurement: Money</p> <ul style="list-style-type: none"> - <i>estimate, compare and calculate different measures, including money in pounds and pence</i> <p>Statistics</p> <ul style="list-style-type: none"> - <i>interpret and present discrete</i>
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	<ul style="list-style-type: none"> - recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten - count up and down in hundredths <p>Measurement: Time</p> <ul style="list-style-type: none"> - read analogue and digital 12 and 24-hour clocks <p>Geometry: Properties of Shape</p> <ul style="list-style-type: none"> - identify lines of symmetry in 2-D shapes presented in different orientations [4G-3] 	<p>common equivalent fractions</p> <p>Measurement: Area</p> <ul style="list-style-type: none"> - find the area of rectangular shapes by counting squares <p>Measurement: Money</p> <ul style="list-style-type: none"> - Estimate, compare and calculate money in pounds and pence. <p>Geometry: Properties of Shape</p> <ul style="list-style-type: none"> - complete a simple symmetric figure with respect to a specific line of symmetry [4G-3] 		<p>Statistics</p> <ul style="list-style-type: none"> - interpret and present discrete and continuous data using appropriate graphical methods, including bar charts <p>Geometry: Position and Direction</p> <ul style="list-style-type: none"> - plot specified points and draw sides to complete a given polygon [4G-1] 	<ul style="list-style-type: none"> - compare numbers with the same number of decimal places up to two decimal places <p>Geometry: Properties of Shape</p> <ul style="list-style-type: none"> - compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes [4G-2] - describe movements between positions as translations of a given unit to the left/right and up/down [4G-2] 	<p>and continuous data using appropriate graphical methods, including time graphs</p> <p>Geometry: Properties of Shape</p> <ul style="list-style-type: none"> - identify acute and obtuse angles and compare and order angles up to two right angles by size
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	Measurement: Time - <i>convert time between analogue and digital 12 and 24-hour clocks</i>	-				
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Maths Guidance Objectives to be covered at the end of the year, if time, before Year 5.

- *Solve division problems, with two-digit dividends and one-digit divisors, that involve Remainders, and interpret remainders appropriately according to the context. [4NF-2]*
- *Multiply and divide whole numbers by 10 and 100 (keeping to whole number quotients); understand this as equivalent to making a number 10 or 100 times the size. [4MD-1]*
- *Reason about the location of mixed numbers in the linear number system. [4F-1]*
- *Convert mixed numbers to improper fractions and vice versa [4F-2]*
- *Add and subtract improper and mixed fractions with the same denominator, including bridging whole numbers. [4F-3]*

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	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6						
	Week 1 Week 2 Week 3 Week 4 Week 5 Week 6 Week 7 Week 8 Week 9 Week 10 Week 11 Week 12											
Autumn	Number: Place Value				Number: Addition and Subtraction			Measurement: Length and Perimeter	Number: Multiplication and Division			Consolidation
Spring	Number: Multiplication and Division			Measurement: Area	Number: Fractions				Number: Decimals			Consolidation
Summer	Number: Decimals		Measurement: Money		Measurement: Time	Statistics		Geometry: Properties of Shape			Geometry: Position and Direction	Consolidation

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