



St Mary's Catholic Primary School and Nursery

Maths Curriculum Map

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Nursery	Counting Recite numbers to 10 Touching each item saying one number for each item (stable order) Noticing numerals (number symbols) Beginning to subitise one and two objects with support Experiment with symbols and mark making Shape Talk about and explore 2D and 3D shapes Positional language Finding my way round a familiar environment Measure Exploring differences in size, length, weight and capacity in independent play Patterns What happens next – the pattern of everyday routines	Counting Recite numbers to 15 Say one number for each item in order Know that the last number reached when counting a set of objects tells you how many there are in total (cardinal principle) Recognising numbers of personal significance Visually comparing two groups when one group is at least double the size of the other Experiment with symbols and mark making Compare quantities using vocabulary including more than and fewer than. Shape Finding and naming 2D shapes in the environment Positional language Respond to some spatial and positional language Measure Using describing words more, lots, full, empty, same, big, fat, thin to describe quantities and amounts	Counting Recite numbers to 20 Beginning to link numerals and amounts – showing the right number of objects to match the numeral, up to 5 Recognising numbers of personal significance Representing numbers 0-5 using my fingers Compare quantities using vocabulary including more than and fewer than. Shape Using 2D and 3D shapes to create pictures and models Positional language Practically explore positional language Measure Finding the longer/shorter, heavier/lighter and more/less full of two items Patterns Recognising a repeating pattern and discussing using informal language			



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		Using the language of first and then (time)	
		Patterns Identify patterns all around – copying and create ABAB patterns	
Reception	Getting to know you Daily Routines Counting songs Just like me Sorting Comparing Exploring pattern It's me 123 Exploring numbers to 3 Properties of shapes Light and Dark Exploring numbers to 5 Properties of shapes	Alive in 5 Concept of 0 Comparing numbers to 5 Composition of numbers to 5 Compare mass & capacity Growing 6,7,8 6, 7 & 8 Making pairs Combining 2 groups Length, height and time Building 9 & 10 9 & 10 Comparing numbers to 10 Bonds to 10 3D shape and pattern	To 20 and beyond Building numbers beyond 10 Counting patterns beyond 10 Spatial reasoning, match, rotate, manipulate First then now Adding more Taking away Spatial reasoning Compose and decompose Find my pattern Doubling Sharing and grouping Even and odd Spatial reasoning Visualize and build On the move Deepening understanding patterns and relationships Spatial reasoning Mapping – positional language



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Year 1	Number: Place Value (Within 10) Small steps include: Sort objects; count objects; count objects from a larger group; represent objects; recognise numbers as words; count on from any number; 1 more; count backwards within 10; 1 less; compare groups by matching, fewer, more, same; less than, greater than, equal to; compare numbers; order objects and numbers; the number line. Number: Addition and subtraction (within 10) Small steps include: Introduce parts and wholes; part-whole model; write number sentences; fact-families - addition facts; number bonds within 10; systematic number bonds within 10; number bonds to 10; addition - add together; addition - add more; addition problems; find a part; subtraction - find a part; fact families - the eight facts; subtraction - take away/cross out/how many left?; take away - How many left?; subtraction on a number line; add or subtract 1 or 2. Geometry: Shape Small steps include: Recognise and name 3D shapes; sort 3D shapes; recognise and	Number: Place Value (Within 20) Small steps include: count within 20; understand 10; understand 11, 12 and 13; understand 14, 15 and 16; understand 17, 18 and 19; understand 20; 1 more and 1 less; the number line to 20; use a number line to 20; estimate on a number line to 20; compare numbers to 20; order numbers to 20. Number: Addition and subtraction (within 20) Small steps include: Add by counting on within 20; add ones using number bonds; find and make number bonds to 20; doubles; near doubles; subtract ones using number bonds; subtraction – counting back; subtraction – finding the difference; related facts; missing number problems. Number: Place Value (Within 50) Small steps include: Count from 20 to 50; 20, 30, 40 and 50; Count by making groups of tens; Groups of tens and ones; Partition into tens and ones; The number line to 50; Estimate on a number line to 50; 1 more, 1 less. Measurement: length and height	Number: Multiplication and Division Small steps include: summer content coming in March Number: Fractions Small steps include: summer content coming in March Geometry: Position and Direction Small steps include: summer content coming in March Number: Place Value (Within 100) Small steps include: summer content coming in March Measurement: Money Small steps include: summer content coming in March Measurement: Time Small steps include: summer content coming in March. Consolidation
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	name 2D shapes; sort 2D shapes; patterns with 2D and 3D shapes. Consolidation	Small steps include: Compare lengths and heights; Measure length using objects; Measure length in centimetres Measurement: Mass and volume Small steps include: Heavier and lighter; Measure mass; Compare mass; Full and empty; Compare volume; Measure capacity; Compare capacity	
Year 2	Number: Place Value Small steps include: Numbers to 20; Count objects to 100 by making 10s; Recognise tens and ones; Use a place value chart; Partition numbers to 100; Write numbers to 100 in words; Flexibly partition numbers to 100; Write numbers to 100 in expanded form; 10s on the number line to 100; 10s and 1s on the number line to 100; Estimate numbers on a number line; Compare objects; Compare numbers; Order objects and numbers; Count in 2s, 5s and 10s; Count in 3s. Number: Addition and subtraction Small steps include: Bonds to 10; Fact families - addition and subtraction bonds within 20; Related facts; Bonds to 100 (tens); Add and subtract 1s; Add by making 10; Add three 1-digit numbers; Add to the next 10;	Measurement: Money Small steps include: Count money – pence Step 2 Count money – pounds (notes and coins) Step 3 Count money – pounds and pence Step 4 Choose notes and coins Step 5 Make the same amount Step 6 Compare amounts of money Step 7 Calculate with money Step 8 Make a pound; Find change Step 10 Two-step problems Number: Multiplication and Division Small steps include: Recognise equal groups; Make equal groups; Add equal groups; Introduce the multiplication symbol; Multiplication sentences; Use arrays; Make equal groups – grouping; Make equal groups – sharing; The 2 times-table; Divide by 2; Doubling and halving; Odd and even numbers; The 10 times-	Number: Fractions Small steps include: summer content coming in March Measurement: Time Small steps include: summer content coming in March Statistics Small steps include: summer content coming in March Geometry: Position and direction Small steps include: summer content coming in March Consolidation



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	Add across a 10; Subtract across 10; Subtract from a 10; Subtract a 1-digit number from a 2-digit number (across a 10); 10 more, 10 less; Add and subtract 10s; Add two 2-digit numbers (not across a 10); Add two 2-digit numbers (across a 10); Subtract two 2-digit numbers (not across a 10); Subtract two 2-digit numbers (across a 10); Mixed addition and subtraction; Compare number sentences; Missing number problems. Geometry: Shape Small steps include: Recognise 2-D and 3-D shapes; Count sides on 2-D shapes; Count vertices on 2-D shapes; Draw 2-D shapes; Lines of symmetry on shapes; Use lines of symmetry to complete shapes; Sort 2-D shapes; Count faces on 3-D shapes; Count edges on 3-D shapes; Count vertices on 3-D shapes; Sort 3-D shapes; Make patterns with 2-D and 3-D shapes.	table; Divide by 10; The 5 times-table; Divide by 5; The 5 and 10 times-tables Measurement: Length and height Small steps include: Measure in centimetres; Measure in metres; Compare lengths and heights; Order lengths and heights; Four operations with lengths and heights. Measurement: Mass, capacity and temperature. Small steps include: Compare mass; Measure in grams; Measure in kilograms; Four operations with mass; Compare volume and capacity; Measure in millilitres; Measure in litres; Four operations with volume and capacity; Temperature	
Year 3	Number: Place Value Small steps include: Represent numbers to 100; Partition numbers to 100; Number line to 100; Hundreds; Represent numbers to 1,000; Partition numbers to 1,000; Flexible partitioning of numbers to 1,000; Hundreds, tens and ones; Find 1, 10 or 100 more or	Number: Multiplication and Division Small steps include: Multiples of 10 Step 2 Related calculations Step 3 Reasoning about multiplication Step 4 Multiply a 2-digit number by a 1-digit number – no exchange Step 5 Multiply a 2-digit number by a 1-digit number – with exchange Step	Number: Fractions Small steps include: summer content coming in March Measurement: Money Small steps include: summer content coming in March



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	less; Number line to 1,000; Estimate on a number line to 1,000; Compare numbers to 1,000; Order numbers to 1,000; Count in 50s Number: Addition and Subtraction Small steps include: Apply number bonds within 10; Add and subtract 1s; Add and subtract 10s; Add and subtract 100s; Spot the pattern; Add 1s across a 10; Add 10s across a 100; Subtract 1s across a 10; Subtract 10s across a 100; Make connections; Add two numbers (no exchange); Subtract two numbers (no exchange); Add two numbers (across a 10); Add two numbers (across a 100); Subtract two numbers (across a 10); Subtract two numbers (across a 100); Add 2-digit and 3-digit numbers; Subtract a 2-digit number from a 3-digit number; Complements to 100; Estimate answers; Inverse operations; Make decisions. Number: Multiplication and Division Small steps include: Multiplication – equal groups; Use arrays; Multiples of 2; Multiples of 5 and 10; Sharing and grouping; Multiply by 3; Divide by 3; The 3 times-table; Multiply by 4; Divide by 4; The 4 times-table; Multiply	6 Link multiplication and division Step 7 Divide a 2-digit number by a 1-digit number – no exchange Step 8 Divide a 2-digit number by a 1-digit number – flexible partitioning; Divide a 2-digit number by a 1-digit number – with remainders Step 10 Scaling Step 11 How many ways? Measurement: Length and perimeter Small steps include: Measure in metres and centimetres Step 2 Measure in millimetres Step 3 Measure in centimetres and millimetres Step 4 Metres, centimetres and millimetres Step 5 Equivalent lengths (metres and centimetres) Step 6 Equivalent lengths (centimetres and millimetres) Step 7 Compare lengths Step 8 Add lengths; Subtract lengths Step 10 What is perimeter? Step 11 Measure perimeter Step 12 Calculate perimeter Number: Fractions Small steps include: Understand the denominators of unit fractions; Compare and order unit fractions; Understand the numerators of non-unit fractions; Understand the whole; Compare and order non-unit fractions; Fractions and scales; Fractions on a number line; Count in	Measurement: Time Small steps include: summer content coming in March Geometry: Shape Small steps include: summer content coming in March Statistics Small steps include: summer content coming in March Consolidation
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	by 8; Divide by 8; The 8 times-table; The 2, 4 and 8 times-tables.	fractions on a number line; Equivalent fractions on a number line; Equivalent fractions as bar models	
Year 4	Number: Place value Number Small steps include: Represent numbers to 1,000; Partition numbers to 1,000; Number line to 1,000; Thousands; Represent numbers to 10,000; Partition numbers to 10,000; Flexible partitioning of numbers to 10,000; Find 1, 10, 100, 1,000 more or less; Number line to 10,000; Estimate on a number line to 10,000; Compare numbers to 10,000; Order numbers to 10,000; Roman numerals; Round to the nearest 10; Round to the nearest 100; Round to the nearest 1,000; Round to the nearest 10, 100 or 1,000 Decimals: Number Addition and subtraction Small steps include: Add and subtract 1s, 10s, 100s and 1,000s; Add up to two 4-digit numbers – no exchange; Add two 4-digit numbers – one exchange; Add two 4-digit numbers – more than one exchange; Subtract two 4-digit numbers – no exchange; Subtract two 4-digit numbers – one exchange; Subtract two 4-digit numbers – more than one exchange; Efficient	Number: Multiplication and division Small steps include: Factor pairs; Use factor pairs; Multiply by 10; Multiply by 100; Divide by 10; Divide by 100; Related facts – multiplication and division; Informal written methods for multiplication; Multiply a 2-digit number by a 1-digit number; Multiply a 3-digit number by a 1-digit number; Divide a 2-digit number by a 1-digit number (1); Divide a 2-digit number by a 1-digit number (2); Divide a 3-digit number by a 1-digit number; Correspondence problems; Efficient multiplication Measurement: Length and perimeter Small steps include: Measure in kilometres and metres; Equivalent lengths (kilometres and metres); Perimeter on a grid; Perimeter of a rectangle; Perimeter of rectilinear shapes; Find missing lengths in rectilinear shapes; Calculate perimeter of rectilinear shapes; Perimeter of regular polygons; Perimeter of polygons	Number Decimals Small steps include: summer content coming in March Measurement Money Small steps include: summer content coming in March Measurement Time Small steps include: summer content coming in March Consolidation Geometry Shape Small steps include: summer content coming in March Statistics Small steps include: summer content coming in March Geometry Position and direction Small steps include: summer content coming in March



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	subtraction; Estimate answers; Checking strategies Measurement: Area Small steps include: What is area?; Count squares; Make shapes; Compare areas Number: Multiplication and division Small steps include: Multiples of 3; Multiply and divide by 6; 6 times-table and division facts; Multiply and divide by 9; 9 times-table and division facts; The 3, 6 and 9 times-tables; Multiply and divide by 7; 7 times-table and division facts; 11 times-table and division facts; 12 times-table and division facts; Multiply by 1 and 0; Divide a number by 1 and itself; Multiply three numbers Consolidation	Number: Fractions Small steps include: Understand the whole; Count beyond 1; Partition a mixed number; Number lines with mixed numbers; Compare and order mixed numbers; Understand improper fractions; Convert mixed numbers to improper fractions; Convert improper fractions to mixed numbers; Equivalent fractions on a number line; Equivalent fraction families; Add two or more fractions; Add fractions and mixed numbers; Subtract two fractions; Subtract from whole amounts; Subtract from mixed numbers Number: Decimals Tenths as fractions; Tenths as decimals; Tenths on a place value chart; Tenths on a number line; Divide a 1-digit number by 10; Divide a 2-digit number by 10; Hundredths as fractions; Hundredths as decimals; Hundredths on a place value chart; Divide a 1- or 2-digit number by 100	
Year 5	Number: Place value Small steps include: Roman numbers to 1000; numbers to 10,000; numbers to 1000,000; numbest o 1,000,000; read and	Number: Multiplication and division Small steps include: multiply up to a 4-digit number by a 1-digit number; multiply a 2-digit number by a 2-digit number (area	Geometry: Shape Small steps include: summer content coming in March



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	write numbers to 1,000,000; powers of 10; 10/100/1000/10000/100000 more or less; partition numbers to 1,000,000; number line to 1,000,000; compare and order numbers to 100,000; compare and order numbers to 1,000,000; round to the nearest 10, 100 or 1000; round within 100,000; round within 1,000,000. Number: Addition and subtraction Small steps include: mental strategies; add whole numbers with more than four digits; subtract whole numbers with more than four digits; round to check answers; inverse operations; multi-step addition and subtraction problems; compare calculations; find missing numbers; Number: Multiplication and division Small steps include: multiples; common multiples; factors; common factors; prime numbers; square numbers; cube numbers; multiply by 10, 100 and 1,000; divide by 10, 100 and 1,000; multiples of 10, 100 and 1,000. Number: Fractions Small steps include: find fractions equivalent to a unit fraction; find fraction equivalent to a	model); multiply a 2-digit number by a 2-digit number; multiply a 3-digit number by a 2-digit number; multiply a 4-digit number by a 2-digit number; solve problems with multiplication; short division; divide a 4-digit number by a 1-digit number; divide with remainders; efficient division; solve problems with multiplication and division. Number: Fractions Small steps include: Multiply a unit fraction by an integer; multiply a non-unit fraction by an integer; multiply a mixed number by an integer; calculate a fraction of a quantity; fraction of an amount; find the whole' use fractions as operators; Number: Decimals and percentages Small steps include: decimals up to 2 decimal places; equivalent fractions and decimals (tenths); equivalent fractions and decimals (hundredths); equivalent fractions and decimals; thousandths as fractions; thousandths as decimals; thousandths on a place value chart; order and compare decimals (same number of decimal places); order and compare any decimals with up to 3 decimal places; round to the nearest whole number; round to 1 decimal	Geometry: Position and direction Small steps include: summer content coming in March Number: Decimals Small steps include: summer content coming in March Number: Negative numbers Small steps include: summer content coming in March Measurement: Converting units Small steps include: summer content coming in March Measurement: Volume Small steps include: summer content coming in March
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	non-unit fraction; recognise equivalent fractions; convert improper fractions to mixed numbers; convert mixed numbers to improper fractions; compare fractions less than 1; order fractions less than 1; compare and order fractions greater than 1; add and subtract fraction with the same denominator; add fractions within 1; add fractions with a total greater than 1; add to a mixed number; add two mixed numbers; subtract fractions; subtract from a mixed number; subtract from a mixed number- breaking the whole; subtract two mixed numbers.	place; understand percentages as fractions; percentages as decimals; equivalent fractions, decimals and percentage. Measurement: Perimeter and area Small steps include: perimeter of rectangles; perimeter of rectilinear shapes; perimeter of polygons; area of rectangles; area of compound shapes; estimate area Statistics Small steps include: Draw line graphs; read and interpret line graphs; read and interpret tables; two-way tables; read and interpret timetables.	
Year 6	Number: Place value Small steps include: Numbers to 1,000,000; Numbers to 10,000,000; Read and write numbers to 10,000,000; Powers of 10; Number line to 10,000,000; Compare and order any integers; Round any integer; Negative numbers Number: Addition, subtraction, multiplication and division	Ratio Small steps include: Add or multiply?; Use ratio language; Introduction to the ratio symbol; Ratio and fractions; Scale drawing; Use scale factors; Similar shapes; Ratio problems; Proportion problems; Recipes Algebra Small steps include: 1-step function machines; 2-step function machines; Form expressions; Substitution; Formulae; Form	Geometry Shape Small steps include: summer content coming in March Geometry Position and direction Small steps include: summer content coming in March Themed projects, consolidation and problem solving



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	Small steps include: Add and subtract integers; Common factors; Common multiples; Rules of divisibility; Primes to 100; Square and cube numbers; Multiply up to a 4-digit number by a 2-digit number; Solve problems with multiplication; Short division; Division using factors; Introduction to long division; Long division with remainders; Solve problems with division; Solve multi-step problems; Order of operations; Mental calculations and estimation; Reason from known facts. Number: Fractions Small steps include: Equivalent fractions and simplifying; Equivalent fractions on a number line; Compare and order (denominator); Compare and order (numerator); Add and subtract simple fractions; Add and subtract any two fractions; Add mixed numbers; Subtract mixed numbers; Multi-step problems. Number: Fractions Small steps include: Multiply fractions by integers Step 2 Multiply fractions by fractions Step 3 Divide a fraction by an integer Step 4 Divide any fraction by an integer Step 5 Mixed questions with fractions Step 6	equations; Solve 1-step equations; Solve 2-step equations; Find pairs of values; Solve problems with two unknowns Number Decimals Small steps include: Place value within 1; Place value – integers and decimals; Round decimals; Add and subtract decimals; Multiply by 10, 100 and 1,000; Divide by 10, 100 and 1,000; Multiply decimals by integers; Divide decimals by integers; Multiply and divide decimals in context Number Fractions, decimals and percentages Small steps include: Decimal and fraction equivalents; Fractions as division; Understand percentages; Fractions to percentages; Equivalent fractions, decimals and percentages; Order fractions, decimals and percentages; Percentage of an amount – one step; Percentage of an amount – multi-step; Percentages – missing values Measurement Area, perimeter and volume	Small steps include: summer content coming in March
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	Fraction of an amount Step 7 Fraction of an amount – find the whole; Measurement: Converting units Small steps include: Metric measures Step 2 Convert metric measures Step 3 Calculate with metric measures Step 4 Miles and kilometres Step 5 Imperial measures	Small steps include: Shapes – same area; Area and perimeter; Area of a triangle – counting squares; Area of a right-angled triangle; Area of any triangle; Area of a parallelogram; Volume – counting cubes; Volume of a cuboid Statistics Small steps include: Line graphs; Dual bar charts; Read and interpret pie charts; Pie charts with percentages; Draw pie charts; The mean	
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