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Maths Curriculum Map

Year group	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 1	• Place value (within 10) • Addition and Subtraction (within 10)	• Addition and Subtraction (within 10) continued • Shape • Place Value (within 20)	• Addition and Subtraction (within 20) • Place Value (within 50) • Consolidation of previous learning	• Length and Height • Weight and Volume • Consolidation of previous learning	• Multiplication and Division • Fractions • Consolidation of previous learning	• Position and Direction • Place Value (within 100) • Money • Time
	<u>Place value</u> *Sort objects *Count objects *Count objects from a group of 10 *Represent objects *Represent numbers to 10 *Count, read and write forwards from any number 0 to 10 * Count, read and write backwards from any number 0 to 10 *Count one more *Count one less *One-to-one correspondence to start to compare groups *Compare groups using language such as equal, more/greater, less/fewer *Introduce <, > and = symbols *Compare numbers *Order groups of objects *Order numbers *Ordinal numbers (1st, 2nd, 3rd…) *The number line <u>Addition and Subtraction (within 10)</u> *Part-whole model *Addition symbol *Fact families – addition facts *Find number bonds for numbers within 10 *Systematic methods for number bonds within 10 *Number bonds to 10	<u>Addition and Subtraction (within 10) continued</u> *Compare number bonds *Addition – adding together *Addition – adding more *Finding a part *Subtraction – taking away, how many left? Crossing out *Subtraction – taking away, how many left? Introducing the subtraction symbol *Subtraction – finding a part, breaking apart *Fact families – the 8 facts *Subtraction – counting back <u>Shape</u> *Recognise and name 3-D shapes *Sort 3-D shapes *Recognise and name 2-D shapes *Sort 2-D shapes *Patterns with 3-D shapes and 2-D shapes <u>Place Value (within 20)</u> *Count forwards and backwards and write numbers to 20 in numerals and words *Numbers from 11 to 20 *Tens and ones *Count one more and one less *Compare groups of objects *Compare numbers *Order groups of objects *Order numbers	<u>Addition and Subtraction (within 20)</u> *Add by counting on *Find & make number bonds *Add by making 10 *Subtraction – Not crossing 10 *Subtraction – crossing 10 (1) *Subtraction – Crossing 10 (2) *Related facts *Compare number sentences <u>Place Value (within 50)</u> *Numbers to 50 *Tens and ones *Represent numbers to 50 *One more one less *Compare objects within 50 *Compare numbers within 50 *Order numbers within 50 *Count in 2s *Count in 5s	<u>Length and Height</u> *Compare lengths and heights *Measure length *Adding length problems *Subtracting length problems <u>Weight and volume</u> *Introduce weight and mass *Measure mass *Compare mass *Weight and mass problems *Introduce capacity and volume *Measure capacity *Compare capacity	<u>Multiplication and Division</u> *Count in 2s *Count in 5s *Count in 10s *Make equal groups *Add equal groups *Make arrays *Make doubles *Make equal groups – grouping *Make equal groups – sharing <u>Fractions</u> *Find a half *Find a quarter	<u>Position and Direction</u> *Describe turns *Describe position <u>Place Value (within 100)</u> *Counting forwards and backwards within 100 *Partitioning numbers *Comparing numbers *Ordering numbers *One more, one less <u>Money</u> *Recognising coins *Recognising notes *Counting in coins <u>Time</u> *Before and after *Dates *Time to the hour *Time to the half hour *Writing time *Comparing time

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Year group	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 2	• Place value • Addition and Subtraction	• Addition and Subtraction continued • Money	• Multiplication and Division • Statistics	• Properties of shape • Fractions	• Length and Height • Position and Direction • Consolidation and problem solving	• Time • Mass, Capacity and Temperature • Consolidation of previous learning
	<u>Place value</u> *Counting forwards and backwards within 20 *Tens and ones within 20 *Counting forwards and backwards within 50 *Tens and ones within 50 *Compare numbers within 50 *Count objects to 100 and read and write numbers in numerals and words *Represent numbers to 100 *Tens and ones with a part-whole model *Tens and ones using addition *Use a place value chart *Compare objects *Compare numbers *Order objects and numbers *Count in 2s, 5s and 10s *Count in 3s <u>Addition and Subtraction</u> *Fact families – addition and subtraction bonds to 20 *Check calculations *Compare number sentences *Know your bonds *Related facts *Bonds to 100 (tens) *Add and subtract 1s *10 more and 10 less *Add and subtract 10s *Add by making 10	<u>Addition and Subtraction</u> *Add a 2 digit and 1-digit number – crossing ten *Subtract – crossing 10 *Subtract a 1-digit number from a 2-digit number – crossing ten *Add two 2 digit numbers – not crossing ten – add ones and add tens *Add two 2-digit numbers – crossing ten – add ones and add tens *Subtract a 2-digit number from a 2-digit number – not crossing ten *Subtract a 2-digit number from a 1-digit number – crossing ten – subtract ones and subtract tens *Find and make number bonds *Bonds to 100 (tens and ones) *Add three 1-digit numbers <u>Money</u> *Recognising coins and notes *Count money-pence *Count money – pounds (notes & coins) *Count money – notes and coins *Select money *Make the same amount *Compare money *Find the total *Find the difference *Find change *Two-step problems	<u>Multiplication and Division</u> *Recognise equal groups *Make equal groups *Add equal groups *Multiplication sentences using the x symbol *Multiplication sentences from pictures *Make arrays *Use arrays *Make doubles *2 times-table *5 times-table *10 times-table *Make equal groups – sharing *Make equal groups – grouping *Divide by 2 *Odd & even numbers *Divide by 5 *Divide by 10 <u>Statistics</u> *Make tally charts *Draw pictograms (1-1) *Interpret pictograms (1-1) *Draw pictograms (2,5 and 10) *Interpret pictograms (2,5 and 10) *Block diagrams	<u>Properties of shape</u> *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 *Sort 2-D shapes *Make patterns with 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 3-D shapes <u>Fractions</u> *Make equal parts *Recognise a half *Find a half *Recognise a quarter *Find a quarter *Recognise a third *Find a third *Unit fractions *Non-unit fractions *Equivalence of ½ and 2/4 *Find three quarters *Count in fractions	<u>Length and Height</u> *Compare lengths and heights *Measure length (cm) *Measure length (m) *Compare lengths *Order lengths *Four operations with lengths <u>Position and Direction</u> *Describe position *Describe movement *Describe turns *Describe movement and turns *Making patterns with shapes	<u>Time</u> *Telling time to the hour *Telling time to the half hour *o'clock and half past *Quarter past and quarter to *Telling time to 5 minutes *Writing time *Hours and days *Find durations of time *Compare durations of time <u>Mass, Capacity and Temperature</u> *Recapping weight and mass *Measure mass *Compare mass *Measure mass in grams *Measure mass in kilograms *Recapping capacity and volume *Measure capacity *Compare volume *Millilitres *Litres *Temperature

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Year group	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 3	• Place value • Addition and Subtraction	• Addition and Subtraction continued • Multiplication and Division	• Multiplication and Division • Money • Statistics	• Length and Perimeter • Fractions • Consolidation	• Fractions • Time	• Properties of shape • Mass and Capacity • Consolidation
	<u>Place value</u> *Represent numbers to 100 *Tens and ones using addition *Hundreds *Represent numbers to 1,000 *100s, 10s and 1s *Number line to 1,000 *Find 1, 10, 100 more or less than a given number *Compare objects to 1,000 *Compare numbers to 1,000 *Order numbers *Count in 50s <u>Addition and Subtraction</u> *Add and subtract multiples of 100 *Add and subtract 1s *Add and subtract 3-digit and 1-digit numbers – not crossing 10 *Add 3-digit and 1-digit numbers – crossing 10 *Subtract a 1-digit number from a 3-digit number – crossing 10 *Add and subtract 3-digit and 2-digit numbers – not crossing 100 *Add 3-digit and 2-digit numbers – crossing 100 *Subtract a 2-digit number from a 3-digit number – crossing 100 *Add and subtract 100s *Spot the pattern – making it explicit	<u>Addition and Subtraction continued</u> *Add and subtract a 2-digit number and 3-digit numbers – not crossing 10 or 100 *Add a 2-digit and 3-digit numbers – crossing 10 or 100 *Subtract a 2-digit number from a 3-digit number – crossing 10 or 100 *Add two 3-digit numbers – not crossing 10 or 100 *Add two 3-digit numbers – crossing 10 or 100 *Subtract a 3-digit number from a 3-digit number – no exchange *Subtract a 3-digit number from a 3-digit number – exchange *Estimate answers to calculations *Check answers <u>Multiplication and Division</u> *Multiply by 3 *Divide by 3 *The 3 times tables *Multiply by 4 *Divide by 4 *The 4 times tables *Multiply by 8 *Divide by 8 *The 8 times table	<u>Multiplication and Division</u> *Comparing statements *Related calculations *Multiply 2-digits by 1-digit *Divide 2-digits by 1-digit *Scaling *How many ways? <u>Money</u> *Pounds and pence *Convert pounds and pence *Add money *Subtract money *Give change <u>Statistics</u> *Pictograms *Bar charts *Tables	<u>Length and Perimeter</u> *Measure length *Equivalent lengths – m & cm *Equivalent lengths – mm & cm *Compare lengths *Add lengths *Subtract lengths *Measure perimeter *Calculate perimeter <u>Fractions</u> *Make equal parts *Recognise a half *Find a half *Recognise a quarter *Find a quarter *Recognise a third *Find a third *Unit fractions *Non-unit fractions *Equivalence of ½ and 2/4 *Find three quarters *Count in fractions	<u>Fractions</u> *Making the whole *Tenths *Count in tenths *Tenths as decimals *Fractions on a number line *Fractions of a set of objects *Equivalent fractions *Compare fractions *Order fractions *Add fractions *Subtract fractions <u>Time</u> *Months and years *Hours in a day *Telling the time to 5 minutes *Telling the time to the minute *Using a.m. and p.m. *24-hour clock *Finding the duration *Comparing durations *Start and end times *Measuring time in seconds	<u>Properties of shape</u> *Turns and angles *Right angles in shapes *Compare angles *Draw accurately *Horizontal and vertical *Parallel and perpendicular *Recognise and describe 2-D shapes *Recognise and describe 3-D shapes *Make 3-D shapes <u>Mass and Capacity</u> *Measure mass *Compare mass *Add and subtract mass *Measure capacity *Compare capacity *Add and subtract capacity

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Year group	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 4	• Place value • Addition and Subtraction	• Length and Perimeter • Multiplication and Division	• Multiplication and Division • Area • Fractions	• Fractions continued • Decimals • Consolidation	• Decimals • Money • Time	• Statistics • Properties of shape • Position and Direction • Consolidation
	<u>Place value</u> *Round to the nearest 10 *Round to the nearest 100 *Count in 1,000s *1,000s, 100s, 10s and 1s *Partitioning *Number line to 10,000 *Find 1,10,100 more or less *1,000 more or less *Compare numbers *Order numbers *Round to the nearest 1,000 *Count in 25s *Negative numbers *Roman numerals to 100 <u>Addition and Subtraction</u> *Add and subtract 1s, 10s, 100s and 1,000s *Add 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 subtraction *Estimate answers *Checking strategies	<u>Length and Perimeter</u> *Kilometres *Perimeter on a grid *Perimeter of a rectangle *Perimeter of rectilinear shapes <u>Multiplication and Division</u> *Multiply by 10 *Multiply by 100 *Divide by 10 *Divide by 100 *Multiply by 1 and 0 *Divide by 1 and itself *Multiply and divide by 6 *6 times table and division facts *Multiply and divide by 9 *9 times table and division facts *Multiply and divide by 7 *7 times table and division facts	<u>Multiplication and Division</u> *11 and 12 times table *Multiply 3 numbers *Factor pairs *Efficient multiplication *Written methods *Multiply 2-digits by 1-digit *Multiply 3-digits by 1-digit *Divide 2-digits by 1-digit <u>Area</u> *What is area? *Counting squares *Making shapes *Comparing area <u>Fractions</u> *Unit and non-unit fractions *What is a fraction? *Tenths *Count in tenths *Equivalent fractions *Fractions greater than 1	<u>Fractions</u> *Count in fractions *Add fractions *Add 2 or more fractions *Subtract fractions *Subtract 2 fractions *Subtract from whole amounts *Fractions of a set of objects *Calculate fractions of a quantity *Problem solving – calculate quantities <u>Decimals</u> *Recognise tenths and hundredths *Tenths as decimals *Tenths on a place value grid *Tenths on a number line *Divide 1-digit by 10 *Divide 2-digits by 10 *Hundredths *Hundredths as decimals *Hundredths on a place value grid *Divide 1 or 2-digits by 100	<u>Decimals</u> *Bonds to 10 and 100 *Make a whole *Write decimals *Compare decimals *Order decimals *Round decimals *Halves and quarters <u>Money</u> *Pounds and pence *Ordering money *Estimating money *Convert pounds and pence *Add money *Subtract money *Find change *Four operations <u>Time</u> *Telling the time to 5 minutes *Telling the time to the minute *Using a.m. and p.m. *24-hour clock *Hours, minutes and seconds *Years, months, weeks and days *Analogue to digital – 12 hour *Analogue to digital – 24 hour	<u>Statistics</u> *Interpret charts *Comparison, sum and difference *Introducing line graphs *Line graphs <u>Properties of shape</u> *Turns and angles *Right angles in shapes *Compare angles *Identify angles *Compare and order angles *Recognise and describe 2-D shapes *Triangles *Quadrilaterals *Horizontal and vertical *Lines of symmetry *Complete a symmetric figure <u>Position and Direction</u> *Describe a position *Draw on a grid *Move on a grid *Describe movement on a grid

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Year group	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 5	• Place value • Addition and Subtraction	• Statistics • Multiplication and Division • Perimeter and Area	• Multiplication and Division • Fractions	• Fractions • Decimals and Percentages • Consolidation	• Consolidation • Decimals • Properties of shape	• Position and Direction • Converting Units • Volume
	<u>Place value</u> *1000s, 100s, 10s and 1s *Numbers to 10,000 *Rounding to the nearest 10 *Rounding to the nearest 100 *Round to nearest 10,100 and 1,000 *Numbers to 100,000 *Compare and order numbers to 100,000 *Round numbers within 100,000 *Numbers to a million *Counting in 10s, 100s, 1,000s, 10,000s and 100,000s *Compare and order numbers to one million *Round numbers to one million *Negative numbers *Roman Numerals to 1,000 <u>Addition and Subtraction</u> *Add two 4-digit numbers- one exchange *Add two 4-digit numbers- more than one exchange *Add whole numbers with more than 4 digits (column method) *Subtract two 4-digit numbers- one exchange *Subtract two 4-digit numbers-more than one exchange	<u>Statistics</u> *Interpret charts *Comparison, sum and difference *Introduce line graphs *Read and interpret line graphs *Draw line graphs *Use line graphs to solve problems *Read and interpret tables *Two-way tables *Timetables <u>Multiplication and Division</u> *Multiples *Factors *Common factors *Prime numbers *Square numbers *Cube number *Multiply by 10 *Multiply by 100 *Multiply by 10,100 and 1,000 *Divide by 10 *Divide by 100 *Divide by 10, 100 and 1,000 *Multiples of 10, 100, 1,000 <u>Perimeter and Area</u> *Measure perimeter *Perimeter on a grid *Perimeter of rectangles *Perimeter of rectilinear shapes *Calculate perimeter *Counting squares	<u>Multiplication and Division</u> *Multiply 2-digits by 1-digit *Multiply 3-digits by 1-digit *Multiply 4-digits by 1-digit *Multiply 2-digits (area model) *Multiply 2-digits by 2-digits *Multiply 3-digits by 2-digits *Multiply 4-digits by 2-digits *Divide 2-digits by 1-digit *Divide 3-digits by 1-digit *Divide 4-digits by 1-digit *Divide with remainders <u>Fractions</u> *What is a fraction? *Equivalent fractions *Fractions greater than 1 *Improper fractions to mixed numbers *Mixed numbers to improper fractions *Number sequences *Compare and order fractions less than 1 *Compare and order fractions greater than 1 *Add and subtract fractions *Add fractions within 1 *Add 3 or more fractions *Add fractions	<u>Fractions</u> *Add mixed numbers *Subtract fractions *Subtract mixed numbers *Subtract – breaking the whole *Subtract 2 mixed numbers *Multiply unit fractions by an integer *Multiply non-unit fractions by an integer *Multiply mixed numbers by integers *Calculate fractions of a quantity *Fraction of an amount *Using fractions as operators <u>Decimals and Percentages</u> *Decimals up to 2 d.p. *Decimals as fractions *Understand thousandths *Thousandths as decimals *Rounding decimals *Order and compare decimals *Understand percentages *Percentage as fractions and decimals *Equivalent F.D.P.	<u>Decimals</u> *Adding decimals within 1 *Subtracting decimals within 1 *Complements to 1 *Adding decimals – crossing the whole *Adding decimals with the same number of decimal places *Subtracting decimals with the same number of decimal places *Adding decimals with a different number of decimal places *Subtracting decimals with a different number of decimal places *Adding and subtracting wholes and decimals *Decimal sequences *Multiplying decimals by 10,100 and 1,000 *Dividing decimals by 10, 100 and 1,000 <u>Properties of shape</u> *Identify angles *Compare and order angles *Measure angles in degrees *Measuring with a protractor *Drawing lines and angles accurately *Calculating angles on a straight line *Calculating angles around a point	<u>Position and Direction</u> *Describe position *Draw on a grid *Position in the first quadrant *Translation *Translation with coordinates *Lines of symmetry *Complete a symmetric figure *Reflection *Reflection with coordinates <u>Converting Units</u> *Kilometres *Kilograms and kilometres *Millimetres and millilitres *Metric units *Imperial units *Converting units of time *Time tables <u>Volume</u> *What is volume? *Compare volume *Estimate volume *Estimate capacity

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	*Subtract whole numbers with more than 4 digits (column method) *Round to estimate and approximate *Inverse operations (addition and subtraction) *Multi-step addition and subtraction problems	*Area of rectangles *Area of compound shapes *Area of irregular shapes			*Triangles *Quadrilaterals *Calculating lengths and angles in shapes *Regular and irregular polygons *Reasoning about 3-D shapes	
Year group	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 6	• Place value • Addition, Subtraction, Multiplication & Division	• Fractions • Position & Direction	• Decimals • Percentages • Algebra	• Converting Units • Perimeter, Area and Volume • Ratio	• Statistics • Properties of Shape • Consolidation or SATS preparation	Consolidation, investigations and preparations for KS3
	<u>Place value</u> *Numbers to 10,000 *Numbers to 100,000 *Numbers to a million *Numbers to ten million *Compare and order any number *Round numbers to 10, 100 and 1,000 *Round any number *Negative numbers <u>Addition, Subtraction, Multiplication & Division</u> *Add whole numbers with more than 4 digits *Subtract whole numbers with more than 4 digits *Inverse operations (addition and subtraction) *Multi-step addition and subtraction problems *Add and subtract integers *Multiply 4-digits by 1-digit *Multiply 2-digits (area model) *Multiply 2-digits by 2-digits *Multiply 3-digits by 2-digits *Multiply up to a 4-digit number by 2-digit number *Divide 4-digits by 1-digit *Divide with remainders *Short division *Division using factors *Long division *Factors	<u>Fractions</u> *Equivalent fractions *Simplify fractions *Improper fractions to mixed numbers *Mixed numbers to improper fractions *Fractions on a number line *Compare and order (denominator) *Compare and order (numerator) *Add and subtract fractions *Add mixed numbers *Add fractions *Subtract mixed numbers *Subtract fractions *Mixed addition and subtraction *Multiply fractions by integers *Multiply fractions by fractions *Divide fractions by integers *Four rules with fractions *Fraction of an amount *Fraction of an amount – find the whole <u>Position & Direction</u> *The first quadrant *Four quadrants *Translations *Reflections	<u>Decimals</u> *Decimals up to 2 decimal places *Understand thousandths *Three decimal places *Multiply 10, 100 and 1,000 *Divide by 10, 100 and 1,000 *Multiply decimals by integers *Divide decimals by integers *Division to solve problems *Decimals as fractions *Fractions to decimals <u>Percentages</u> **Understand percentages *Fractions to percentages *Equivalent Fractions, Decimals & Percentages *Order Fractions, Decimals & Percentages *Percentage of an amount (1) *Percentage of an amount (2) *Percentages – missing values <u>Algebra</u> *Find a rule – one step *Find a rule – two step *Forming expressions *Substitution *Formulae *Forming equations *Solve simple one-step equations *Solve two-step equations *Find pairs of values	<u>Converting Units</u> *Metric measures *Convert metric measures *Calculate with metric measures *Miles and kilometres *Imperial measures <u>Perimeter, Area and Volume</u> *Shapes – same area *Area and perimeter *Area of a triangle *Area of parallelogram *What is volume? *Volume – counting cubes *Volume of a cuboid <u>Ratio</u> *Using ratio language *Ratio and fractions *Introducing the ratio symbol *Calculating ratio *Using scale factors *Calculating scale factors *Ratio and proportion problems	<u>Statistics</u> *Read and interpret line graphs *Draw line graphs *Use line graphs to solve problems *Circles *Read and interpret pie charts *Pie charts with percentages *Draw pie charts *The mean <u>Properties of Shape</u> *Measure with a protractor *Draw lines and angles accurately *Introduce angles *Angles on a straight line *Angles around a point *Calculate angles *Vertically opposite angles *Angles in a triangle *Angles in a triangle – special cases *Angles in a triangle – missing angles *Angles in special quadrilaterals *Angles in regular polygons *Draw shapes accurately *Draw nets of 3-D shapes	

	*Common factors *Common multiples *Primes to 100 *Squares and cubes *Order of operations *Mental calculations and estimation *Reason from known facts		*Enumerate possibilities			