



Halam Church of England Primary School

Maths Curriculum Progression

EYFS					
Getting to know you Just like me	It's me 1, 2, 3 Light and dark	Alive in 5 Growing 6, 7, 8	Building 9 and 10	To 20 and beyond First, then, now	Find my pattern On the move
The counting principles: The one-one principle The stable-order principle The cardinal principle The abstraction principle The order-irrelevance principle Matching with buttons Matching with socks Matching with lids Sorting with buttons Sorting with natural objects Compare size	Represent 1 Represent 2 Represent 3 Sorting 1, 2, 3 Matching 1, 2, 3 Comparing 1, 2, 3 Representing 4 Representing 5 Sorting 4 and 5 Composition of 4 Composition of 5 Composition 4 and 5	One less five How many? Representing zero Composition of numbers to 5 Comparing numbers to 5 Equal and unequal groups Composition of numbers to 5 (2 groups) Which show 6? Composition of 6 Sorting 6, 7, 8 – Composition of 7 Composition of 8 Matching 6, 7, 8 1 more and less Matching 6, 7, 8	Representing and sorting 9 and 10 Order numerals to 10 Composition of 9 and 10 Numbers to 10 Counting back form 10	Number patterns to 20 Matching picture to numeral Ten frame fill beyond 10 Estimating Ten frame subtraction Missing numbers Counting on Adding more Adding more – unknown then Adding more – unknown first Taking away with pebbles	Doubling Doubling with dice Doubling barrier Domino game Sharing Harry and his bucketful of dinosaurs Mr Gumpy's outing problem solving How many legs problem solving Making boats Building bridges Cuisenaire rods
Year 1					
Number: Place value (within 10) Number: Addition and subtraction (within 10)	Number: Addition and subtraction (within 10) Geometry: Shape Number: Place value (within 20)	Number: Addition and subtraction (within 20) Number: Place value (within 50)	Measurement: Length and height Measurement: Weight and volume	Number: Multiplication and division Number: Fractions Geometry: position and direction	Number: Place value (within 100) Measurement: Money Measurement: Time
Sorting, representing and counting up to 10 objects Count forward and backwards to and from 10 Count 1 more and 1 less for numbers within 10 < > = for numbers within 10 Order numbers up to 10 Ordinal numbers Number line 0-10 Parts and whole Part-whole model Addition symbol	Subtraction – crossing out, using the symbol, find a part Fact families Subtraction – counting back, finding the difference Comparing addition and subtraction statements Recognise, name and sort 3D shapes Recognise, name and sort 2D shapes Patterns with 3D and 2D shapes Count forwards and backwards and write numbers to 20	Add by counting on within 20 Add ones using number bonds Find and make number bonds to 20 Add by making 10 Subtraction – not crossing 10, crossing 10 Compare number sentences Numbers to 50 Counting forwards and backwards within 50 Tens and ones Represent numbers to 50 One more one less	Count in 2s Count in 5s Compare lengths and heights Measure length Using a ruler Adding and subtracting length problems Introducing weight and mass Measure and compare mass Weight and mass problems Introduce capacity and volume Measure and compare capacity	Count in 2s, 5s and 10s Make equal groups Add equal groups Make arrays Make doubles Grouping and sharing Making a half Making a whole Find a half Find a half of a quantity Making a quarter Find a quarter Find a quarter of a quantity Describe turns	Counting to 100 Counting forwards and backwards within 100 100 square Partitioning numbers Comparing numbers Ordering numbers One more, one less Recognising coins and notes Counting in coins Before and after Dates Time to the hour Time to the half hour



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<p>Number bonds for numbers within 10</p> <p>Number bonds to 10</p> <p>Addition – adding together, adding more, using bonds</p> <p>Finding a part</p>	<p>Numbers 11-20</p> <p>Tens and ones</p> <p>Count one more one less</p> <p>Compare and order group of objects</p> <p>Compare and order numbers</p>	<p>Compare objects, numbers, and order numbers within 50</p>		<p>Describe position</p>	<p>Writing time</p> <p>Comparing time</p>
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Year 2

Number: Place value Number: Addition and subtraction	Number: Addition and subtraction Measurement: Money Number: Multiplication and division	Number: Multiplication and division Statistics	Geometry: Properties of shape Number: Fractions	Measurement: Length and height Geometry: Position and direction Measurement: Time	Measurement: Time Measurement: Mass, capacity and temperature
<p>Counting forwards and backwards within 20</p> <p>Tens and one within 20</p> <p>Counting forward and backwards within 50</p> <p>Tens and ones within 50</p> <p>Compare numbers within 50</p> <p>Count objects to 100</p> <p>Read and write numbers to 100 in numerals and words</p> <p>Represent numbers to 100</p> <p>Tens and ones using part-whole</p> <p>Tens and ones using addition</p> <p>Using a place value chart</p> <p>Compare and order objects and numbers</p> <p>Count in 2's, 5's, 10's, 3's</p> <p>Bonds to 20</p> <p>Check calculations</p> <p>Compare number sentences</p> <p>Bonds to 100 (tens)</p> <p>Add and subtract 1s</p> <p>10 more 10 less</p> <p>Add and subtract 10s</p> <p>Add by making 10</p> <p>Add 2 digit and 1 digit crossing 10</p>	<p>Add 2 digit numbers not crossing 10</p> <p>Add 2 digit numbers crossing 10</p> <p>Subtract 2 digit from 2 digit number not crossing 10</p> <p>Subtract 2 digit from 2 digit number crossing 10</p> <p>Bonds to 100</p> <p>Add three 1 digit numbers</p> <p>Recognising coins and notes</p> <p>Count money – pence, pounds, notes and coins</p> <p>Select money</p> <p>Compare money</p> <p>Find the total</p> <p>Find the difference</p> <p>Find change</p> <p>Two step problems</p> <p>Make equal groups</p> <p>Add equal groups</p> <p>Make arrays</p>	<p>Recognise, make and add equal groups</p> <p>Multiplication sentences using x</p> <p>Multiplication sentences using pictures</p> <p>Use arrays</p> <p>Doubles</p> <p>2, 5, 10 times table</p> <p>Make equal groups – sharing and grouping</p> <p>Divide by 2</p> <p>Odd and even numbers</p> <p>Divide by 5, 10</p> <p>Tally charts</p> <p>Draw and interpret pictograms</p> <p>Block diagrams</p>	<p>Recognise and make 2D and 3D shapes</p> <p>Count sides and vertices on 2D shapes</p> <p>Draw 2D shapes</p> <p>Lines of symmetry</p> <p>Sort 2D shapes</p> <p>Patterns with 2D shapes</p> <p>Count faces, edges and vertices on 3D shapes</p> <p>Sort 3D shapes</p> <p>Patterns with 3D shapes</p> <p>Make equal parts</p> <p>Recognise and find a half</p> <p>Recognise and find a quarter</p> <p>Recognise and find a third</p> <p>Unit and non-unit fractions</p> <p>Equivalence of a half and 2 quarters</p> <p>Find three quarters</p> <p>Count in fractions</p> <p>Problem solving with fractions</p>	<p>Compare lengths and heights</p> <p>Measure length (cm,m)</p> <p>Compare and order lengths</p> <p>Four operations with lengths</p> <p>Problem solving with lengths</p> <p>Describe position</p> <p>Problem solving with position</p> <p>Describe movement</p> <p>Describe turns</p> <p>Patterns with shapes</p> <p>Telling the time to the hour and half hour</p> <p>O'clock and half past</p> <p>Quarter past and quarter to</p> <p>Telling the time to 5 minutes</p>	<p>Writing time</p> <p>Hours and days</p> <p>Find and compare durations of time</p> <p>Measure and compare mass</p> <p>Measure mass in grams</p> <p>Measure mass in kilograms</p> <p>Measure capacity</p> <p>Compare volume</p> <p>Millilitres</p> <p>Litres</p> <p>Four operations with mass</p> <p>Four operations with volume</p> <p>Temperature</p>



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Subtraction crossing 10 Subtract 1 digit from 2 digit crossing 10					
Year 3					
Number: Place value Number: Addition and subtraction	Number: Addition and subtraction Number: Multiplication and division	Number: Multiplication and division Measurement: Length, Perimeter & Area	Number: Fractions	Measurement: Mass and capacity Number: Decimals (inc money) Measurement: Time	Measurement: Time Statistics Geometry: Properties of shape
Place value up to 1000 Number lines to 1000 Compare objects & numbers, roman numerals Consolidation of place value Add and subtract multiples Add up to two 3 digit numbers Subtract up to two 4 digit numbers	Addition and subtraction problems, estimating and checking answers Arrays, 2 5 10 times tables Sharing and grouping, dividing by 2 5 10 3 and 4 times table 4 and 8 times table	2 4 8 times table Multiply 2 digits by 1 digit Scaling Divide 2 digits by 1 digit Divide with remainders Equivalent lengths (m and cm, mm and cm) Measure length (m) Compare length Add and subtract lengths Measure perimeter Calculate perimeter	Unit and non-unit fractions Tenths Equivalent fractions Fractions on a number line Add fractions Making the whole Subtract fractions Compare fractions Order fractions Fractions of a set of objects Tenths of decimals, on a place value grid & on a number line	Measure & compare mass Add and subtract mass Measure & compare capacity Add & subtract capacity Temperature Count money Convert pounds & pence Add & subtract money Give change O'clock and half past Quarter past, quarter to Months and year, hours in a day Telling the time to 5 mins and 1 min Am and pm 24 hour clock	Finding and comparing duration Start and end times Measuring time in seconds Problem solving Interpret pictograms Draw bar charts Tables Right angles Compare angles Draw angles Horizontal and vertical Parallel and perpendicular Recognise and describe 2D and 3D shapes Make 3D shapes
Year 4					
Number: Place value Number: Addition and subtraction	Number: Addition and subtraction Number: Multiplication and division	Number: Multiplication and division Measurement: Length, Perimeter & Area	Number: Fractions	Number: Decimals (inc money) Geometry: Position and direction Measurement: Time	Measurement: Time Statistics Geometry: Properties of shape
Place value up to 10,000 Number lines to 10,000 Compare & order numbers, roman numerals Rounding, negative numbers Add and subtract multiples Add up to two 4 digit numbers Subtract up to two 4 digit numbers	Efficient subtraction, estimating and checking strategies Arrays, 2 5 10 times tables Multiply and divide by 10 100, multiply by 1 and itself 3 and 6 times table 9 and 7 times table	11 and 12 times table Multiply 3 numbers, factors Multiply up to 3 digits by 1 Divide up to 3 digits by 1 Correspondence problems Equivalent lengths (m and cm, mm and cm) Kilometres Area – counting squares	Unit and non-unit fractions Tenths Equivalent fractions Fractions greater than 1 Add fractions Add 2 or more fractions Subtract fractions Subtract 2 fractions Subtract from whole amounts	Bonds to 10 and 100 Make a whole Write, compare & order decimals Round decimals Halves and quarters Pounds and pence Ordering money Estimating money Convert pounds & pence	Hours, mins, secs Years, months, weeks, days Analogue to digital Interpret charts Line graphs Right angles in shapes Compare angles Identify angles Compare & order angles



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		Add and subtract lengths Measure perimeter Perimeter of a rectangle and of rectilinear shapes	Fractions of a set of objects Fractions of a quantity Tenths as decimals, place value grid & number line Divide by 10 Hundredths as decimals, place value grid & number line Divide by 100	Add & subtract money Give change Symmetry, lines of symmetry Horizontal and vertical Describe position Draw and move on a grid Describe movement Telling the time to 5 mins and 1 min Am and pm 24 hour clock	Triangles Quadrilaterals
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Year 5

Number – Place value Number – Addition & subtraction Statistics	Number – Multiplication & division Measurement – Perimeter and area	Number – Multiplication & division Number - Fractions	Number – Fractions Number – Decimals and percentages	Number – Decimals Geometry: Properties of shape	Geometry: Position and direction Measurement: Converting units
Numbers to 10,000 Rounding to the nearest 10, 100, 1000 Compare & order numbers to 100,000 Round numbers within 100,000 Compare & order numbers to one million Round numbers to one million Negative numbers Roman numerals Add & subtract 4 digit numbers Round to estimate Inverse operations (addition & subtraction) Multi-step addition & subtraction problems Interpret charts Read, interpret, draw and use line graphs Read and interpret tables Timetables	Multiples & factors Common factors Prime numbers Square numbers Cube numbers Multiply by 10, 100, 1000 Measure perimeter, on a grid, of rectangles, rectilinear shapes Calculate perimeter Counting squares Area of rectangles, compound shapes and irregular shapes	Multiply 2, 3, 4 digits by 1 Multiply 2, 3, 4 digits by 2 Divide 2, 3, 4 digits by 1 Divide with remainders Equivalent fractions Fractions greater than 1 Improper fractions to mixed numbers Mixed numbers to improper fractions Compare and order fractions less than 1 Compare and order fractions greater than 1 Add and subtract fractions Add 3 or more fractions	Add and subtract mixed numbers Subtract 2 mixed numbers Multiply unit and non-unit fractions by an integer Multiply mixed numbers by integers Fractions of a quantity and of an amount Decimals up to 2 dp Decimals as fractions Thousandths as decimals Rounding decimals Order and compare decimals Percentages as fractions and decimals Equivalent fractions, decimals and percentages	Adding and subtracting decimals Decimal sequences Multiplying and dividing decimals Identify angles Compare and order angles Measuring with a protractor Drawing lines and angles Angles on a straight line Angles around a point Triangles Quadrilaterals Regular and irregular polygons 3D shapes	Describe and draw position First quadrant Translation with co-ordinates Lines of symmetry Reflection with co-ordinates Kilometres Kilograms and kilometres Millimetres and millilitres Metric units Imperial units Timetables Compare volume Estimate volume and capacity

Year 6



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Number – place value Number – Addition & subtraction Number – Multiplication & division	Number: Fractions Geometry: Position and direction	Number: Decimals Number: Percentages Number: Algebra	Measurement: Converting units Measurement: perimeter, Area and Volume Number: Ratio	Statistics Geometry: Properties of shape	Consolidation
Numbers to 10,000, 100,000, a million and 10 million Compare and order any number Round any number Negative numbers Add and subtract whole numbers with more than 4 digits Inverse operations (addition and subtraction) Multi-step addition and subtraction problems Add and subtract integers Multiply up to 4 digit number by a 2 digit number Divide 4 digits by 1 digit Divide with remainders Short division Long division Common factors and multiples Prime numbers to 100 Square and cubes Order of operations Mental calculations	Equivalent fractions Simplify fractions Improper to mixed numbers Mixed numbers to improper Fractions on a number line Compare and order fractions Add and subtract fractions Add and subtract mixed numbers Multiply fractions by integers and fractions Divide fractions by integers Fraction of an amount Four quadrants Translations Reflections	Decimals up to 2dp Three decimal places Multiply by 10, 100, 1000 Divide by 10, 100, 1000 Multiply and divide by integers Division to solve problems Decimals as fractions Fractions to decimals Understand percentages Fractions to percentages Equivalent FDP Order FDP Percentage of an amount Percentages – missing values Find a rule – one step and two step Substitution Formulae Forming equations Solve one and two step equations Find pairs of values	Convert and calculate metric measures Miles and kilometres Imperial measures Area and perimeter Area of triangle Area of parallelogram Volume – counting cubes Volume of a cuboid Ratio and fractions Ratio symbol Calculating ratio Using and calculating scale factors Ratio and proportion problems	Read, interpret and draw line graphs Line graphs to solve problems Circles Read and interpret pie charts Pie charts with percentages Draw pie charts The mean Measure with a protractor Draw lines and angles Angles on a straight line Angles around a point Calculate angles Vertically opposite angles Angles in a triangle Missing angles Angles in special quadrilaterals Angles in regular polygons Draw shapes Draw nets of 3D shapes	Consolidation in preparation for transition: Written calculations Mental strategies Long multiplication Long division Fractions Percentages Decimals