Year 3 Curriculum Map – Maths
Number and Calculation

St Christopher Primary

During key stage 2 pupils use the number system more confidently. They move from counting reliably to calculating fluently with all four number operations. They always try to tackle a problem with mental methods before using any other approach. Pupils explore features of shape and space and develop their measuring skills in a range of contexts. They discuss and present their methods and reasoning using a wider range of mathematical language, diagrams and charts.

Half Term 1 Numbers to 200 Calculation – Addition and Subtraction Multiplication and Division	Half Term 2 Number to 500 Calculation – Addition and Subtraction Multiplication and Division Fractions	Half Term 3 Number to 500 Calculation – Addition and Subtraction Multiplication and Division Fractions	Half Term 4 Numbers to 500 Calculation – Addition and Subtraction Multiplication and Division Fractions	Half Term 5 Numbers to 1000 Calculation – Addition and Subtraction Multiplication and Division Fractions	Half Term 6 Numbers to 1000 Calculation – Addition and Subtraction Fractions
Concrete and Pictorial					
Identify, represent and estimate numbers (0-200) using concrete objects, pictorial representation and a number line/hundred square.	Identify, represent and estimate (0-500) using concrete objects, pictorial representation and a number line/hundred square.	Identify, represent and estimate (0-500) using concrete objects, pictorial representation and a number line/hundred square.	Identify, represent and estimate numbers (0-500) using concrete objects, pictorial representation and a number line/hundred square.	Identify, represent and estimate numbers (0-1000) using concrete objects, pictorial representation and a number line/hundred square.	Identify, represent and estimate (0-1000) using concrete objects, pictorial representation and a number line/hundred square.
Number and place value					
Read and write numbers from (0-200) in digits and words.	Read and write numbers from (0-500) in digits and words.	Read and write numbers from (0-500) in digits and words.	Read and write numbers from (0-500) in digits and words.	Read and write numbers from (0-1000) in digits and words.	Read and write numbers from (0-1000) in digits and words
Compare and order numbers from (0-200). Use < > = signs.	Compare and order numbers from (0-500) Use < > = signs.	Compare and order numbers from (0-500) Use < > = signs.	Compare and order numbers from (0-500) Use < > = signs.	3NPV-3 Compare and order numbers from (0-1000) Use < > = signs.	Compare and order numbers from (0-1000) Use < > = signs.
Recognise place value of each digit in a three-digit number (hundreds, tens and ones). 3NPV-1 Know that 10 tens are equivalent to 1 hundred and that 100 is 10 times the size of 10; apply this to identify and work out how many 10s there are in other three digit multiples of 10.	Recognise place value of each digit in a three-digit number (hundreds, tens and ones).	Recognise place value of each digit in a three-digit number (hundreds, tens and ones). 3NPV-4 Divide 100 into 2,4,5,and 10 equal parts and read scales/number lines marked in multiples of 100 with 2,4,5 and 10 equal parts.	3NPV-2 Recognise place value of each digit in a three-digit number (hundreds, tens and ones).	Round numbers up to 1000 to the nearest 10.	Round numbers up to 1000 to the nearest 10.
Count, read and write numbers including money					
Count coins (1p, 2p, 5p, 10p, 20p and 50p).	Finding 10 more or less than a given number.	3NPV-3 Finding 10 more or less than a given number.	Finding 100 more or less than a given number.	3NPV-3 Finding 100 more or less than a given number.	Count up and down in tenths.
	Count in steps of ones, twos, threes, fives and tens from 0 – 200 forwards and backwards.	Count in steps of ones, twos, threes, fours, fives and tens from 0 – 500 forwards and backwards.	Count in steps of ones, twos, threes, fours, fives, eights and tens from 0 – 500 forwards and backwards.	Count in steps of one hundred from 0 – 1000 forwards and backwards. Count in eights.	Count in steps of fifty from 0 – 1000 forwards and backwards.
Addition and Subtraction - Solve problems including missing number problems, using number facts, place value and more complex addition and subtraction.					
3AS-1 3NF-1 Recall and use addition and subtraction facts to 100 fluently. 3NF-3 Derive and use related facts to 200.	Recall and use addition and subtraction facts to 500 fluently. Derive and use related facts to 500.	Add and subtract three digit number and hundreds mentally.	Add and subtract three digit number and tens mentally.	Add and subtract three digit number and ones mentally.	Add and subtract three digit number and hundreds, tens or ones mentally.
Add and subtract numbers using concrete objects, pictorial representations mentally and using written methods, including: A two-digit number and ones A two-digit number and tens Two two-digit numbers Adding three one-digit numbers.	Add and subtract numbers using column addition and subtraction, including: Two two-digit numbers A two-digit number and ones A two-digit number and tens.	Estimate the answer to a calculation and use inverse operation to check answers.	Estimate the answer to a calculation and use inverse operation to check answers.	Estimate the answer to a calculation and use inverse operation to check answers.	3AS-3 Estimate the answer to a calculation and use inverse operation to check answers.
		Add and subtract numbers using column addition and subtraction, including: Two two-digit numbers A two-digit number and ones A two-digit number and tens.	Add and subtract numbers using column addition and subtraction, including: Two two-digit numbers A two-digit number and ones A two-digit number and tens.	3AS-2 Add and subtract numbers using column addition and subtraction, including: A two-digit number and a three-digit number Two three-digit numbers.	Add and subtract numbers using column addition and subtraction, including: A two-digit number and a three-digit number Two three-digit numbers.
Multiplication and Division - Solve problems including missing number problems involving multiplication and division, including integer scaling problems and correspondence problems in which n objects are connected to m objects.					
Calculate mathematical statements for multiplication and division using the multiplication tables that they know; including a range of concrete and mental methods.	Calculate mathematical statements for multiplication and division for two digit numbers times one digit numbers using a range of concrete and mental methods.	Calculate mathematical statements for multiplication and division for two digit numbers times one digit numbers using a range of concrete and mental methods.	Calculate mathematical statements for multiplication and division for two digit numbers times one digit numbers using a range of concrete resources, mental and written methods.	3MD-1 Calculate mathematical statements for multiplication and division for two digit numbers times one digit numbers using a range of concrete resources, mental and written methods.	
Recall and use multiplication and division facts for the 2, 3, 5, 10x table. Recognise odd and even numbers including those with three digits.	Recall and use multiplication and division facts for the 2, 3, 4, 5, 10x table. Recognise odd and even numbers including those with three digits.	3NF-2 Recall and use multiplication and division facts for the 2, 3, 4, 5, 8, 10x table. Identify multiples.			
Recognise and use the inverse relationship between multiplication and division in calculations.	Recognise and use the inverse relationship between multiplication and division in calculations.	Recognise and use the inverse relationship between multiplication and division in calculations.			
Fractions including problem solving with all of the below.					
	3F-1 Interpret and write proper fractions to represent 1 or several parts of a whole that is divided into equal parts.	Recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators.	Recognise and show using diagrams and equivalent fractions with small denominators.	Count up and down in tenths.	3F-4 Add and subtract with the same denominator within one whole e.g.: 5/7 + 1/7=6/7

	Recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators.	Compare and order unit fractions with the same denominator.	3F-3 Reason about the location of any fraction within 1 in the linear number system	
	Compare and order unit fractions with the same denominator.	3F-2 Find unit fractions of quantities using known division facts		Recognise find and write fractions of a discrete set of objects e.g.: ¾ of 32 unit fractions and non-unit fractions with small denominators.

Year 3 Curriculum Map – Maths
Geometry, Measurement and Statistics

Half Term 1 Numbers to 200 Money Geometry/Shape	Half Term 2 Number to 250 Money Geometry	Half Term 3 Number to 500 Measurement Geometry	Half Term 4 Numbers to 500 Perimeter Time	Half Term 5 Numbers to 1000 Capacity Time Statistics	Half Term 6 Numbers to and beyond 1000 Mass Geometry/Angles Statistics
Measurement - Money					
Add and subtract amounts of money to give change, using both £ and p in practical contexts.	Solve simple problems in a practical context involving addition and subtraction of money using pounds and pence including giving change.				
		Measurement – Units of Measure			
		Choose and use appropriate standard units to estimate and measure add, subtract and compare length/height in any direction (m/cm) using rulers, tape measures, metre sticks.	Measure the perimeter of simple 2d shapes.	Choose and use appropriate standard units to estimate and measure add, subtract and compare temperature (ºC) and capacity (l/ml) to the nearest appropriate unit using scales and thermometers.	Choose and use appropriate standard units to estimate and measure add, subtract and compare mass (g/kg) to the nearest appropriate unit using a range of measuring vessels.
			Measurement – Time		
			Estimate and read time with increasing accuracy to the nearest minute and record and compare time in seconds, minutes and hours. Vocabulary: seconds, minutes, hours, o'clock, am/pm, morning afternoon, noon and midnight.	Tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour clocks.	
			Know the number of seconds in a minute and the number of days in months, year and leap year.	Compare duration of events.	
Geometry - Shape, Position and Direction					
Identify and name regular and irregular polygons (as year 1 and 2 as well as pentagons, hexagons, octagons, nonagons, decagons).	**3G-2** Identify horizontal and vertical lines and pairs of perpendicular and parallel lines in 2d shapes. Draw polygons by joining marked points. **3G-1** Recognise right angles as a property of shape or a description of a turn, and identify right angles in 2D shapes presented in different orientations.	Describe positions on a simple co-ordinates grid in one quadrant.			Recognise that two right angles make a half turn, three make three quarters of a turn and four a complete turn.
Identify and name of 3D shapes (cones cylinders, prisms, pyramids, cubes, cuboids, spheres).	Compare and sort 2-D and 3-D shapes.				
Identify and describe the properties of a range of 3-D shapes, including the number of edges, vertices and faces.	Draw 2-D Shapes and make 3-D Shapes using modelling materials; recognise 3d shapes in different orientations and describe them.				Identify whether angles are greater than or less than a right angle.
				Statistics	
				Interpret and present data using bar charts, pictograms and tables.	Solve one step and two step questions such as How many more? How many less? Using information presented in scaled tables and bar charts.