St. Peter's Ye	ar 2 Maths Curriculum	Fractions	
Autumn 1Autumn 2SUnit12345	Spring 1 Spring 2 Summer 1 Summer 2 Addition and Subtraction 6 7 8 9 10 11 12 13 14 Multiplication and division		
Unit Year 2 1 Numbers 10 to 100 • 2NPV-1 Recognise the place value of each digit in two-digit numbers, and compose and decompose two-digit numbers using standard and non-standard partitioning. • 2NPV-2 Reason about the location of any two-digit number in the linear number system, including identifying the previous and next multiple of 10. • 1.8 Composition of numbers: multiples of 10 up to 100 • 1.9 Composition of numbers: 20–100	Number and Place Value • recognise the place value of each digit in a two-digit number (tens, ones) • identify, represent and estimate numbers using different representations, including the number line • compare and order numbers from 0 up to 100; use <, > and = signs • read and write numbers to at least 100 in numerals and in words • use place value and number facts to solve problems. • recal and write numbers to 100 in numerals; (NC Y1 NCETM Y2) • recal and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100 (Also in Y3) Non Statutory Notes NPV - Using materials and a range of representations, pupils practise counting, reading, writing and comparing numbers to at least 100 and solving a variety of related problems to develop fluency. They count in multiples of three to support their later understanding of a third. NPV - As they become more confident with numbers up to 100, pupils are introduced to larger numbers to develop further their recognition of patterns within the number system and represent them in different ways, including spatial representations. Pupils should partition numbers in different ways (for example, 23 = 20 + 3 and 23 = 10 + 13) to support subtraction. They become fluent and apply their knowledge of numbers to reason with, discuss and solve problems that emphasise the value of each digit in two-digit numbers. They begin to understand zero as a place holder. NPV - Pupils begin to recognise place value in numbers beyond 20 by reading, writing, counting and comparing numbers up to 100, supported by objects and pictorial	Language	
 Calculations within 20 2AS-1 Add and subtract across 10. 2AS-2 Recognise the subtraction structure of 'difference' and answer questions of the form, "How many more?". 1.11 Addition and subtraction: bridging 10 1.12 Subtraction as difference 	 Number - Addition and Subtraction represent and use number bonds and related subtraction facts within 20 (NC Y1 NCETM Y2) add and subtract one-digit and two-digit numbers to 20, including zero (NC Y1 NCETM Y2) Solve problems with addition and subtraction: using concrete objects and pictorial representations, including those involving numbers, quantities and measures applying their increasing knowledge of mental and written methods Add and subtract numbers using concrete objects, pictorial representations, and mentally, including: adding three one-digit numbers show that addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot Non Statutory Notes NAS - Pupils extend their understanding of the language of addition and subtraction to include sum and difference. NAS - Pupils practise addition and subtraction to 20 to become increasingly fluent in deriving facts such as using 3 + 7 = 10; 10 - 7 = 3 and 7 = 10 - 3 to calculate 30 + 70 = 100; 100 - 70 = 30 and 70 = 100 - 30. They check their calculations, including by adding to check subtraction and adding numbers in a different order to check addition (for example, 5 + 2 + 1 = 1 + 5 + 2 = 1 + 2 + 5). This establishes commutativity and associativity of addition. 		

Fluently add and subtract within 10	Number – Addition and Subtraction	
 2NF–1 Secure fluency in addition and subtraction facts within 10, through continued practice. 	 read, write and interpret mathematical statements involving addition (+), subtraction (-) and equals (=) signs (Continue from Y1) 	
• 1.7 Addition and subtraction: strategies within 10	• solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as $7 = -9$. (Continue from Y1)	
	 recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100 (NC Y2 NCETM Y3) 	
 Addition and subtraction of two-digit numbers (1) 2AS-3 Add and subtract within 100 by applying related one-digit addition and subtraction facts: add and subtract only ones or only tens to/from a two-digit number. 1.13 Addition and subtraction: two-digit and single-digit numbers 1.14 Addition and subtraction: two-digit numbers and multiples or ten 	Number – Addition and Subtraction Add and subtract numbers using concrete objects, pictorial representations, and mentally, including: a two-digit number and ones a two-digit number and ones a two-digit number and tens add and subtract one-digit and two-digit numbers to 20, including zero (NC Y1 NCETM Y2)	
 Introduction to multiplication 2MD-1 Recognise repeated addition contexts, representing them with multiplication equations and calculating the product, within the 2, 5 and 10 multiplication tables. 2.2 Structures: multiplication representing equal groups 2.3 Times tables: groups of 2 and commutativity (part 1) 2.4 Times tables: groups of 10 and of 5, and factors of 0 and 1 2.5 Commutativity (part 2), doubling and halving 	 Number and Place Value count in steps of 2, 3, and 5 from 0, and in tens from any number, forward and backward Number – Multiplication and Division solve one-step problems involving multiplication and division, by calculating the answer using concrete objects, pictorial representations and arrays with the support of the teacher. (NC Y1 NCETM Y2) recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (x), division (÷) and equals (=) signs show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts Non Statutory Notes NMD - Through grouping and sharing small quantities, pupils begin to understand: multiplication and division; doubling numbers and quantities; and finding simple fractions of objects, numbers and quantities. (NC Y1 NCETM Y2) NMD - Pupils are introduced to the multiplication tables. They practise to become fluent in the 2, 5 and 10 multiplication tables and connect them to each other. They connect the 10 multiplication tables and recall multiplication facts, including using related division facts in which multiplication and division relate to grouping and sharing discrete and contexts in which multiplication and fivision facts, including using related divisions on the clock face. They begin to use other multiplication tables and recall multiplication facts, including using related division facts to perform written and mental calculations. NMD - Pupil	
 Introduction to division structures 2MD-2 Relate grouping problems where the number of groups is 	example, 4 × 5 = 20 and 20 ÷ 5 = 4). Number – Multiplication and Division • solve one-step problems involving multiplication and division, by calculating the answer using concrete objects, pictorial	
unknown to multiplication equations with a missing factor, and to division equations (quotitive division).	 representations and arrays with the support of the teacher. (NC Y1 NCETM Y2) recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and 	
2.6 Structures: quotitive and partitive division	even numbers	

	 calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (×), division (÷) and equals (=) signs show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts 	
	Non Statutory NotesNMD - Through grouping and sharing small quantities, pupils begin to understand: multiplication and division; doubling numbers and quantities; and finding simple fractions of objects, numbers and quantities. (NC Y1 NCETM Y2)NMD - Pupils use a variety of language to describe multiplication and division.NMD - Pupils are introduced to the multiplication tables. They practise to become fluent in the 2, 5 and 10 multiplication tables and connect them to each other. They connect the 10 multiplication table to place value, and the 5 multiplication table to the divisions on the clock face. They begin to use other multiplication tables and recall multiplication facts, including using related division facts to perform written and mental calculations.NMD - Pupils work with a range of materials and contexts in which multiplication and division relate to grouping and sharing discrete and continuous quantities, to arrays and to repeated addition. They begin to relate these to fractions and measures (for example, 40 ÷ 2 = 20, 20 is a half of 40). They use commutativity and inverse relations to develop multiplicative reasoning (for example, 4 × 5 = 20 and 20 ÷ 5 = 4).	
	Geometry – Properties of Shape • identify and describe the properties of 2-D shapes, including the number of sides and line symmetry in a vertical line • identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces • identify 2-D shapes on the surface of 3-D shapes, [for example, a circle on a cylinder and a triangle on a pyramid] • compare and sort common 2-D and 3-D shapes and everyday objects Non Statutory Notes Pupils handle and name a wide variety of common 2-D and 3-D shapes including: quadrilaterals and polygons, and cuboids, prisms and cones, and identify the properties of each shape (for example, number of sides, number of faces). Pupils identify, compare and sort shapes on the basis of their properties and use vocabulary precisely, such as sides, edges, vertices and faces. Pupils read and write names for shapes that are appropriate for their word reading and spelling. Pupils draw lines and shapes using a straight edge.	
 Addition and subtraction of two-digit numbers (2) 2AS-4 Add and subtract within 100 by applying related one-digit addition and subtraction facts: add and subtract any 2 two-digit numbers. 1.15 Addition: two-digit and two-digit numbers 1.16 Subtraction: two-digit and two-digit numbers 	 Number – Addition and Subtraction Add and subtract numbers using concrete objects, pictorial representations, and mentally, including: two two-digit numbers Non Statutory Notes NAS - Pupils extend their understanding of the language of addition and subtraction to include sum and difference. Pupils practise addition and subtraction to 20 to become increasingly fluent in deriving facts such as using 3 + 7 = 10; 10 - 7 = 3 and 7 = 10 - 3 to calculate 30 + 70 = 100; 100 - 70 = 30 and 70 = 100 - 30. They check their calculations, including by adding to check subtraction and adding numbers in a different order to check addition (for example, 5 + 2 + 1 = 1 + 5 + 2 = 1 + 2 + 5). This establishes commutativity and associativity of addition. NAS - Recording addition and subtraction in columns supports place value and prepares for formal written methods with larger numbers. 	
Money • This topic is part of the National Curriculum but is not included in the DfE 2020 guidance or the NCETM Mastery Professional Development Materials.	Measurement • recognise and use symbols for pounds (£) and pence (p); combine amounts to make a particular value • find different combinations of coins that equal the same amounts of money • solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change Non Statutory Notes	

		Pupils become fluent in counting and recognising coins. They read and say amounts of money confidently and use the symbols £ and p accurately, recording pounds and pence separately	
10	• 3.0 Guidance on the teaching of fractions in Key Stage 1	Number – Fractions • recognise, find and name a half as one of two equal parts of an object, shape or quantity (NC Y1 NCETM Y3) • recognise, find and name a quarter as one of four equal parts of an object, shape or quantity. (NC Y1 NCETM Y3) • recognise, find, name and write fractions 1/3 , 1/3 , 2/3 and 3/4 of a length, shape, set of objects or quantity • write simple fractions for example, 1/2 of 6 = 3 and recognise the equivalence of 2/4 and 1/2 . Non Statutory Notes NF - Pupils are taught 'fractions of' discrete and continuous quantities by solving problems using shapes, objects and quantities. For example, they could recognise and find half a length, quantity, set of objects or shape. Pupils connect halves and quarters to the equal sharing and grouping of sets of objects and to measures, as well as recognising and combining halves and quarters as parts of a whole (NC Y1 NCETM Y3) NF - They connect unit fractions to equal sharing and grouping, to numbers when they can be calculated, and to measures, finding fractions of lengths, quantities, sets of objects or shapes. They meet 3/4 as the first example of a non-unit fraction. Pupils should count in fractions up to 10, starting from any number and using the 1/2 and 2/4 equivalence on the number line (for example, 1 1/4 , 2 2/4 (or 1 1/2), 1 3/4 , 2). This reinforces the concept of fractions as numbers and that they can add up to more than one. (NC Y2 NCETM Y3)	
11	Time • This topic is part of the National Curriculum but is not included in the DfE 2020 guidance or the NCETM Mastery Professional Development Materials.	Measurement • compare and sequence intervals of time • tell and write the time to five minutes, including quarter past/to the hour and draw the hands on a clock face to show these times • know the number of minutes in an hour and the number of hours in a day. Non Statutory Notes They become fluent in telling the time on analogue clocks and recording it.	
12	 Position and direction This topic is part of the National Curriculum but is not included in the DfE 2020 guidance or the NCETM Mastery Professional Development Materials. 	Geometry - Position and Direction • order and arrange combinations of mathematical objects in patterns and sequences • use mathematical vocabulary to describe position, direction and movement, including movement in a straight line and distinguishing between rotation as a turn and in terms of right angles for quarter, half and three-quarter turns (clockwise and anticlockwise) Non Statutory Notes Pupils should work with patterns of shapes, including those in different orientations. Pupils use the concept and language of angles to describe 'turn' by applying rotations, including in practical contexts (for example, pupils themselves moving in turns, giving instructions to other pupils to do so, and programming robots using instructions given in right angles).	
13	 Multiplication and division – doubling, halving, quotative and partitive division 2.5 Commutativity (part 2), doubling and halving 2.6 Structures: quotative and partitive division 	Number – Multiplication and Division • solve one-step problems involving multiplication and division, by calculating the answer using concrete objects, pictorial representations and arrays with the support of the teacher. (NC Y1 NCETM Y2) • calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (×), division (÷) and equals (=) signs • show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot • solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts	

14	Sense of measure – capacity, volume, mass • This topic is part of the National Curriculum but is not included in the DfE 2020 guidance or the NCETM Mastery Professional Development Materials.	Non Statutory Notes NMD - Through grouping and sharing small quantities, pupils begin to understand: multiplication and division; doubling numbers and quantities, and finding simple fractions of objects, numbers and quantities. (NC Y1 NCETM Y2) NMD - Pupils are introduced to the multiplication tables. They practise to become fluent in the 2, 5 and 10 multiplication tables and connet them to each other. They begin to use other multiplication table to place value, and the 5 multiplication table to the division facts to perform written and mental calculations. NMD - Pupils work with a range of materials and contexts in which multiplication and division relate to grouping and sharing discrete and continuous quantities, to arrays and to repeated addition. They begin to relate these to fractions and measures (for example, $4x 5 = 20$ and $20 \pm 5 = 4$). Measure • compare, describe and solve practical problems for: • mass/weight [for example, full/empty, more than, lighter than] • capacity and volume [for example, full/empty, more than, less than, half, half full, quarter] • capacity and volume • capacity and volume [for example, full/empty, more than, less than, half, half full, quarter] • mass/weight • capacity and volume • compare, adors and use appropriate standard units to estimate and measure length/height in any direction (m/cm); mass (kg/g); temperature [*C]; capacity (litres/mi] to the nearest appropriate unit, using rulers, scales, thermometers and measuring vessels • compare and order lengths, mass, volume/capacity and record the results using >, < and = (NC Y1 NCETM Y2) NON Statutory
		appropriate language and record using standard abbreviations.
* 1 5 *	Statistics This topic is part of the National Curriculum but is not included in the DfE 2020 guidance or the NCETM Mastery PD Materials. 	Statistics • interpret and construct simple pictograms, tally charts, block diagrams and simple tables • ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity • ask and answer questions about totalling and comparing categorical data Non Statutory Notes Pupils record, interpret, collate, organise and compare information (for example, using many-to-one correspondence in pictograms with simple ratios 2, 5, 10).

	1	2	3	4	5	6	7	8	9 – NTS	10	11	12	13
Autumn		Unit 1 Numbers 10			Calcı	Unit 2 ulations withi	n 20	Unit 3 Fluently add and subtract within 10	Addition and	i t 4 subtraction of numbers (1)	Introduc	Unit 5	plication
			Mastering	Number wee	eks 1-5			N	Aastering Num	ber weeks 6-10			
Spring		nit 5 o multiplication	Introduction	nit 6 Unit 7 on to division Shape ctures		Addition a			Unit 9 Money	Unit 10 Fractions		Unit 11 Time	
		Mastering N	umber weeks 1	eeks 11 - 15 Mastering Number weeks 16 - 20				0					
Summer	Unit 12 Position and direction	Unit Multiplication doubling, halvi and partitiv	and division – ng, quotative	Sense of	i t 14 measure – blume, mass	SATS	*Unit 15* Cross Curricular Statistics			*Unit 16* Deeper Application and Consolidation - Year 3 Ready			
	Mastering Number weeks 21 - 26						Revisit of	Mastering Nu	mber Facts				

NAS	Number, Addition and Subtraction
NPV	Number and Place Value
NMD	Number, Multiplication and Division
G	Geometry
GPD	Geometry, Position and Direction
Μ	Measurement

Dark grey references are ready-to-progress criteria from the DfE Guidance 2020

Light grey references are from the NCETM Primary Mastery Professional Development materials

Both are available online