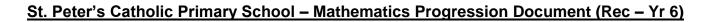




Progression Sheet Foundation Stage

Mathematics	0-3 Year Olds	3 and 4 Year Olds	Reception Children	ELG
Numerical Patterns	 Combines Objects. Takes part in finger rhymes with numbers. Reacts to changes of amount in a group of up to 3 items. Compares amounts. Vocab 'Lots' 'More' 'Same' Develops counting like behaviour. Counts in everyday contexts, sometimes skipping numbers 1,2,3,5. Notice patterns and arrange things in patterns. 	 Develop fast recognition of up to 3 objects, without having to count them individually. Recite numbers past 5. Say one more for each item in order: 1, 2,3,4,5. Know that the last number reached when counting a small set of objects tells you how many there are in total. (Cardinal principle) Show 'finger numbers' up to 5. Link numeral and amount. Experiment with their own symbols and marks as well as numerals. Solve real world mathematical problems with numbers up to 5. Talk about and identify the patterns around them. Extend and create ABAB patterns – stick, leaf, stick, leaf. Notice and correct an error in a repeating pattern. Begin to describe a sequence of events using words such as 'first', 'then' 	 Count objects, actions and sounds. Subitise (recognise number patterns without counting) Link number symbol with its cardinal number value. Count beyond ten Compare numbers Understand the 'one more then/one less than' relationship between consecutive numbers. Explore the composition of numbers to 10. Automatically recall number bonds for numbers 0-10. Continue, copy and create repeating patterns. 	 Children have a deep understanding of number to 10, including the composition of each number. Subitise up to 5 Automatically recall number bonds up to 5 and some number bonds to 10, including double facts. Verbally count beyond 20, recognising the pattern of the counting system. Compare quantities up to 10 in different contexts, recognising when one quantity is greater than, less than or the same as the other quantity. Explore and represent patterns within numbers up to 10, including evens and odds, double facts and how quantities can be distributed equally.
Shape, Space, Measure	 Uses language such as 'on top of' 'up' 'down' 'through' Compares sizes, weights. Uses gesture and language 'bigger/little/smaller', 'high/low/heavy'. 	 Talk about and explore 2D and 3D shapes. Understand position through words alone. Compare quantities with language: 'more than', 'fewer than' 	 Select, rotate and manipulate shapes in order to develop spatial reasoning skills. Compose and decompose shapes so that children 	





Autumn Term

Reception Number	Baseline	Matching, sorting and comparing amount	Number of the week: 1, 2, 3, 4, 5	One more, one less
Reception SSM	Baseline	Measurement: Patterns Comparing weight and size, positional language	2D shapes	Time
Year 1	Place Value (within 10) 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/some, less than/greater than/equal to, compare numbers,	Addition and Subtraction (within 10) 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	Shape Recognise and name 3D shapes, sort 3D shapes, recognise and name 2D shapes, sort 2D shapes, patterns with 3D and 2D shapes	

	numbers, the	many left?), subtraction	
	number line	– take away (how many	
		left?), subtraction on a	
		number line, add or	
		subtract 1 or 2.	
Year 2	Place Value	Addition and	Shape
	Numbers to 20,	Subtraction	Recognise 2D
	count objects to	Bonds to 10, fact	and 3D
	100 by making 10s,	families – addition and	shapes, count
	recognise tens and	subtraction bonds	sides of 2D
	ones, use a place	within 20, bonds to 100	shapes, count
	value chart,	(tens), add and subtract	verticies on 2D
	partition numbers to	1s, add by making 10,	shapes, draw
	100, write numbers	add three 1 digit	2D shapes,
	to 100 in words,	numbers, add to the	lines of
	flexibly partition	next 10, add across a	symmetry on
	numbers to 100,	10, subtract across ten,	2D shapes,
	write numbers to	subtract from a 10,	use lines of
	100 in expanded	subtract a 1 digit	symmetry to
	form, 10s on the	number from a 2 digit	complete
	number line to 100,	number (across a 10),	shapes, sort
	estimate numbers	10 more/10 less, add	2D shapes,
	on a number line,	and subtracts 10s, add	count faces on
	compare objects,	two 2 digit numbers	3D shapes,
	compare numbers,	(not across a 10), add	count edges
	order objects and	two 2 digit numbers	on 3D shapes,
	numbers, count in	(across a 10), subtract	count vertices
	2s, count in 5s,	two 2 digit numbers	on 3D shapes,
	count in 10s, count	(not across a 10),	sort 3D
	in 3s.	subtract two 2 digit	shapes, make
		numbers (across a 10),	patterns with
		mixed addition and	2D and 3D
		subtraction, compare	shapes
		number sentences,	

		missing number problems		
Year 3	Place Value Represent numbers to 100, partition numbers to 100, number line to 100, hundreds, represent numbers to 1000, partition numbers to 1000, flexible portioning of numbers to 1000, 100s, 10s and 1s, find 1, 10 or 100 more or less, number line to 1000, estimating on a number line to 1000, compare numbers to 1000, order numbers to 1000, count in 50s.	Addition and Subtraction Apply number bonds within 10, add and subtract 1s, add and subtract 10s, add and subtract 10s, spot the pattern, add 1s across a 10, add 10s across a 100, subtract 1s across a 10, subtract 1s across a 10, subtract 10s across 100, make connections, add two numbers (no exchange), subtract two numbers (across a 10), add two numbers (across a 10), add two numbers (across a 10), subtract two numbers (across a 10), subtract two numbers (across a 10), subtract two numbers (across a 100), add 2 digit and 3 digit numbers, subtract a 2 digit number, complements to 100, estimate answers, inverse operations, make decisions	Multiplication a Multiplication — e use arrays, multiples of 5 arrand grouping, midivide by 3, the smultiply by 4, divides table, multiply 8, the 8 times and 8 times table	equal groups, iples of 2, od 10, sharing oultiply by 3, 3 times table, vide by 4, the 4 tiply by 8, divide s table, the 2, 4

Year 4	Place Value Represent numbers to 1000, partition numbers to 1000, number line to 1000, thousands, represent numbers to 10,000, partition numbers to 10,000, flexible partitioning of numbers to 10,000, find 1, 10, 100, 1000 more or less, number line to 10,000, estimate on a 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 10, 100 or 1000	Addition and Subtraction Add and subtract 1s, 10s, 100s and 1000s, , 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 – one exchange, subtract two 4 digit numbers – more than one exchange, efficient subtraction, estimate answers, checking strategies	Measurement: Area What is area?, counting squares, making shapes, comparing area	Multiplication and Division 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, 12 times table and division facts, multiply by 1 and 0, divide 1 and itself, multiply three
	1000			
Year 5	Place Value Roman numerals to 1000, numbers to 10,000, numbers to 100,000, numbers	Addition and Subtraction Mental strategies, add whole numbers with more than 4 digits,	Multiplication and Division Multiples, common multiples,	Fractions Find fractions equivalent to a unit fraction, find fractions

to a million, read and write numbers to 1,000,000, powers of 10, 10/100/1000/100,00 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 one million. round to the nearest 10, 100 or 1000, round within 100,000, round within 1,000,000

subtract whole numbers with more than 4 digits, round to check answers, inverse operations (addition and subtraction), multistep addition and subtraction problems, compare calculations, find missing numbers

factors, common factors, prime numbers, square numbers, cube numbers, multiply by 10, 100 and 1000, divide by 10, 100, 1000, multiples of 10, 100 and 1000.

equivalent to a 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 fractions with the same denominator, add fractions within 1, add fractions with total greater than 1, add to a mixed number, add

Year 6	Place Value	Addition, Subtraction,	Fractions A	two mixed numbers, subtract fractions, subtract from a mixed number, subtract from a mixed number – breaking the whole, subtract two mixed numbers Fractions B
	Numbers to 1,000,000, numbers	Multiplication & Division	Equivalent fractions and	Multiply fractions by
	to 10,000,000, read and write numbers	Add and subtract integers, common	simplifying, equivalent	integers, multiply
	to 10,000,000,	factors, common	fractions on a	fractions by
	powers of 10, number line to	multiples, rules of divisibility, primes to	number line, compare and	fractions, divide
	10,000,000,	100, square and cube	order	fractions by
	compare and order	numbers, multiply up to	(denominator),	an integer,
	any integers, round	a 4 digit number by a 2	compare and order	divide any
	any integers, negative numbers	digit number, solve problems with	(numerator),	fractions by an integer,
	Trogative trainisere	multiplication, short	add and	mixed
		division, division using	subtract simple	questions with
		factors, introduction to	fractions, add	fractions,
		long division, long division with	and subtract any two	fraction of an amount.
		remainders, solve	fractions, add	fraction of an
		problems with division,	mixed	

solve multi-step problems, order of operations, mental calculations and estimation, reason from known facts	numbers, subtract mixed numbers, multi-step problems	amount – find the whole.
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Spring Term

Reception Number	Numbers to 5	Number of the week: 6, 7, 8, 9, 10	Comparing numbers to 10	Number bonds t	o 10
Reception SSM	Measurement: Comparing mass and capacity	Measurement: Length & Height	Time	3D shapes	Patterns
Year 1	Place Value (within 20) Count within 20, understand 20, 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, compare	Addition and Subtraction (within 20) 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 –	Place value to 50 Count from 20 to 50, 20, 30, 40 and 50, count by making groups of ten, groups of ten and ones, partition into tens and ones, the number line to 50, estimate on a number line to 50, 1 more/1 less,	Compare lengths and heights, measure length using	

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	numbers to 20,	finding the		
	order numbers	difference,		
	to 20.	related facts,		
		missing number		
		problems		
Year 2	Money	Multiplication	Measurement:	Measurement:
	Count money –	and Division	Length &	Mass,
	pence, count	Recognise	Height	capacity &
	money –	equal groups,	Measure in	temperature
	pounds (notes	make equal	centimetres,	Compare
	and coins),	groups, add	measure in	mass, measure
	count money -	equal groups,	metres, compare	in grams,
	pounds and	introduce the	lengths and	measure in
	pence, choose	multiplication	heights, order	kilograms, four
	notes and	symbol,	lengths and	operations with
	coins, make the	multiplication	heights, four	mass, compare
	same amount,	sentences, use	operations with	volume and
	compare	arrays, make	lengths and	capacity,
	amounts of	equal groups –	heights	measure in
	money,	grouping, make		millimetres,
	calculate with	equal groups –		measure in
	money, make a	sharing, the 2		litres, four
	pound, find	times table,		operations with
	change, two	divide by 2,		volume and
	step problems.	doubling and		capacity,
		halving, odd		temperature
		and even		
		numbers, the		
		10 times table,		
		divide by 10,		
		the 5 times		
		table, divide by		
		5, the 5 and 10		
		times table		

Year 3	Multiplication	Measurement -	Fractions	Measurement:
	and Division	Length and	Understand	Mass and
	Multiples of 10,	Perimeter	the	capacity
	related	Measure in	denominators	Use scales,
	calculations,	metres and	of unit	measure mass
	reasoning about	centimetres,	fractions,	in grams,
	multiplication,	measure in	compare and	measure mass
	multiply a 2 digit	millimetres,	order unit	in kilograms
	number by a 1	measure in	fractions,	and grams,
	digit number –	centimetres and	understand	equivalent
	no exchange,	millimetres,	the	masses
	multiply a 2 digit	metres,	numerators or	(kilograms and
	number by a 1	centimetres and	non unit	grams),
	digit number –	millimetres,	fractions,	compare mass,
	with exchange,	equivalent	understand	add and
	link	lengths (metres	the whole,	subtract,
	multiplication	and	compare and	measure
	and division,	centimetres),	order non unit	capacity and
	divide by a 2	equivalent	fractions,	volume in
	digit number by	lengths	fractions and	millimetres,
	a 1 digit number	(centimetres and	scales,	measure
	no exchange,	millimetres),	fractions on a	capacity and
	divide by a 2	compare	number line,	volume in litres
	digit number by	lengths, add	count in	and millilitres,
	a 1 digit number	lengths, subtract	fractions on a	equivalent
	- flexible	lengths, what is	number line,	capacities and
	partitioning,	perimeter?,	equivalent	volumes (litres
	divide a 2 digit	measure	fractions on a	and millilitres),
	number by a 1	perimeter,	number line,	compare
	digit number –	calculate	equivalent	capacity and
	with	perimeter.	fractions as	volume, add
	remainders,		bar models	and subtract
	scaling, how			capacity and
	many ways?			volume.

Year 4	Multiplication	Measurement:	Fractions	Decimals
	and Division	Length and	Understand	Tenths as
	Factor pairs,	Perimeter	the whole,	fractions, tenths
	use factor pairs,	Measure in	count beyond	as decimals,
	multiply by 10,	kilometres and	1, partition a	tenths on a
	multiply by 100,	metres,	mixed	place value
	divide by 10,	equivalent	number,	chart, tenths on
	divide by 100,	lengths	number lines	a number line,
	related facts –	(kilometres and	with mixed	divide a 1 digit
	multiplication	metres),	numbers,	number by 10,
	and division,	perimeter on a	compare and	divide a 2 digit
	informal written	grid, perimeter of	order mixed	number by 10,
	methods for	a rectangle,	numbers,	hundredths as
	multiplication,	perimeter of	understand	fractions,
	multiply a 2 digit	rectilinear	improper	hundredths as
	number by a 1	shapes, find	fractions,	decimals,
	digit number,	missing lengths	convert mixed	hundredths on
	multiply a 3 digit	in rectilinear	numbers to	a place value
	number by a 1	shapes,	improper	chart, divide a 1
	digit number,	calculate	fractions,	or 2 digit
	divide a 2 digit	perimeter of	convert	number by 100.
	number by a 1	rectilinear	improper	
	digit number	shapes,	fractions to	
	(1), divide a 2	perimeter of	mixed	
	digit number by	regular	numbers,	
	a 1 digit number	polygons,	equivalent	
	(2), divide a 3	perimeter of	fractions on a	
	digit number by	polygons	number line,	
	a 1 digit		equivalent	
	number,		fraction	
	correspondence		families, add	
	problems,		two or more	
	efficient		fractions, add	
	multiplication		fractions and	
			mixed	

			numbers, subtract two fractions, subtract from whole amounts, subtract from mixed numbers		
Year 5	Multiplication and Division Multiply up to a 4 digit number by a 1 digit number, multiply a 2 digit number by a 2 digit number (area 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,	Fractions 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	Decimals and Percentages Decimals up to 2 decimal places, equivalent fractions and decimals (tenths), equivalent fractions and decimals (hundredths), equivalent fractions and decimals, thousandths as decimals, thousandths on a place value chart, order and compare decimals (same	Perimeter and Area Perimeter of rectangles, perimeter of rectilinear shapes, perimeter of polygons, area of rectangles, area of compound shapes, estimate area	Statistics Draw line graphs, read and interpret line graphs, read and interpret tables, two way tables, read and interpret timestables

	divide with		number of			
	remainders,		decimal			
	efficient		places), order			
	division, solve		and compare			
	problems with		any decimals			
	multiplication		with up to 3			
	and division		decimal			
			places, round			
			to the nearest			
			whole			
			number,			
			round to 1			
			decimal place,			
			understand			
			percentages,			
			percentages			
			as fractions,			
			percentages			
			as decimals,			
			eguivalent			
			fractions,			
			decimals and			
			percentages			
Year 6	Ratio	Algebra	Decimals	Fractions,	Measurement:	Statistics
	Add or	1 step function	Place value	Decimals and	Perimeter,	Line graphs,
	multiply?, use	machines, 2 step	within 1, place	Percentages	Area &	dual bar
	ratio language,	function	value –	Decimal and	Volume	charts, read
	introduction to	machines, form	integers and	fraction	Shapes –	and interpret
	the ratio	expressions,	decimals,	equivalents,	same area,	pie charts, pie
	symbol, ratio	substitution,	round	fractions as	area and	charts with
	and fractions,	formulae, form	decimals, add	division,	perimeter, area	percentages,
	scale drawing,	equations, solve	and subtract	understand	of a triangle –	draw pie
	use scale	1 step	decimals,	percentages,	counting	charts, the
	factors, similar	equations, solve	multiply by 10,	fractions to	squares, area	mean
	shapes, ratio	2 step	100 and 1000,	percentages,	of a right-	

problems, proportion problems, recipes	equations, find pairs of values, solve problems with two unknowns	divide by 10, 100 and 1000, multiply decimals by integers, divide decimals by integers, multiply and divide decimals in context.	equivalent fractions, decimals and percentages order fractions, decimals and percentages, percentage of an amount — one step, percentage of an amount — multistep, percentages — missing values	angled triangle, area of a parallelogram, volume – counting cubes, volume of a cuboid	
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Summer Term

Reception Number	Numbers of the week 11-20		Doubling	Sharing and grouping	Odds and Ev	vens Deepening understanding, patterns and relationships			
Reception SSM	Spatial reasoning								
Year 1	Multiplication and Division Count in 2s, count in 10s, count in 5s, recognise equal groups, add equal groups, make arrays, make doubles, make equal groups – grouping.	Fractions Recognise a half of an object or a shape, find a half of an object or a shape, recognise a half of a quantity, find a half of a quantity, recognise a quarter of a quanter of an object or a shape, find a quarter of an object or a shape, recognise a quarter of a quantity, find a quantity.	Position and Direction Describe turns, describe position – left and right, describe a position above and below, ordinal numbers	Place Value (within 100) Count from 50 to 100, tens to 100, partition into tens and ones, the number line to 100, 1 more, 1 less, compare numbers with the same number of tens, compare only two numbers	Money Unitising, recognise coins, recognise notes, count in coins	Time Before and after, days of the week, months of the year, hours, minutes and seconds, tell the time to the hour, tell the time to the half hour			

Year 2	Fractions Introduction to parts and whole, equal and unequal parts, recognise a half, find a half, recognise a quarter, recognise a third, find a third	Time O'Clock and half past, quarter past and quarter to, tell the time past the hour, tell the time to the hour, tell the time to 5 minutes, minutes in an hour, hours in a day	Make tally charts, tables, block diagrams, draw pictograms (1-1), interpret pictograms (1-1), draw pictograms (2,	Position and direction Language of position, describe movement, describe turns, describe movement and turns, shape patterns with turns				
Year 3	Fractions Add fractions, subtract fractions, partition the whole, unit fractions of a set of objects, non- unit fractions of a set of objects, reasoning with fractions of an amount	Money Pounds and pence, convert pounds and pence, add money, subtract money, find change	Time Roman numerals to 12, tell the time to 5 minutes, tell the time to the minute, read time on a digital clock, use am and pm, years, months and days, days and hours, hours and minutes – use start and end times	compare ang draw accurate vertical, parale perpendicular describe 2D s polygons	ngles, right angles, riles, measure and ely, horizontal and liel and r, recognise and shapes, draw	Statistics Interpret pictogram interpret bar ch draw bar charts collect and repr data, two way to	ns, arts, s, resent	
Year 4	Decimals Make a whole with tenths, make a whole with hundredths, partition	Money Write money using decimals, covert between pounds and pence, compare	Years, months and days, hours minutes and seconds,	Shape Understand angles as turns, identify angles, compare and	Statistics Interpret charts, comparison, sum and difference, interpret line	Properties of shape Turns and angles, right angles in shapes,	Position & Direction Describe position using coordinates, plot	

	decimals, flexibly partition decimals, compare decimals, order decimals, round to the nearest whole number, halves and quarters as decimals	amounts of money, estimate with money, calculate with money, solve problems with money	analogue and digital times, covert to the 24-hour clock, convert from the 24 hour clock	order angles, triangles, quadrilaterals, polygons, lines of symmetry, complete a symmetric figure	graphs, draw line graphs	compare angles, identify angles, compare and order angles, recognise and describe 2D shapes, triangles, quadrilaterals, horizontal and vertical, lines of symmetry, complete a symmetric figure	coordinates, draw 2D shapes on a grid, translate on a grid, describe translation on a grid
Year 5	Shape Understand and use degrees, classify angles, estimate angles, measure angles up 180, draw lines and angles accurately, calculate angles around a point, calculate angles on a straight line, lengths and angles in shapes	Position and Direction: Read and plot coordinates, problem solving with coordinates, translation, translation with coordinates, lines of symmetry, reflection in horizontal and vertical lines	Decimals Use known facts to add and subtract decimals within 1, complements to 1, add and subtract decimals across 1, add decimals with the same number of decimal places, add decimals with different	Negative Numbers Understand negative numbers, count through zero in 1s, count through zero in multiples, compare and order negative numbers, find the difference	Converting Units Kilograms and kilometres, millimetres and millilitres, covert units of length, convert between metric and imperial units, covert units of time, calculate with timetables	Volume Cubic centimetres, compare volume estimate volume, estimate capacity	,

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Year 6	Shape		numbers of decimal places, subtract decimals with different numbers of decimal places, efficient strategies for adding and subtracting decimals Projects		
	Measure and classify angles, calculate angles, vertically opposite angles, angles in a triangle, angles in a triangle – special cases, angles in a triangle – missing angles, angles in a quadrilateral, angles in polygons	Direction The first quadrant, read and plot points in four quadrants, solve problems with coordinates, translations, reflections			