Mathematics at St Mary's Catholic Primary School



Year 4 End Points

Number – number and place value	Number – addition and subtraction	Number – multiplication and division	Number – fractions (including decimals)	Measurement	Geometry – properties of shapes	Geometry – position and direction	Statistics	
Pupils will be able to:								
count in multiples	add and	recall multiplication	recognise and show,	Convert between	compare and	describe	interpret and	
of 6, 7, 9, 25 and	subtract	and division facts for	using diagrams,	different units of	classify geometric	positions on a	present discrete	
1000	numbers with	multiplication tables	families of common	measure [for	shapes, including	2-D grid as	and continuous	
	up to 4 digits	up to 12 × 12	equivalent fractions	example, kilometre	quadrilaterals and	coordinates in	data using	
find 1000 more or	using the formal			to metre; hour to	triangles, based	the first	appropriate	
less than a given	written methods	use place value,	count up and down	minute]	on their	quadrant	graphical	
number	of columnar	known and derived	in hundredths;		properties and		methods,	
	addition and	facts to multiply and	recognise that	measure and	sizes	describe	including bar	
count backwards	subtraction	divide mentally,	hundredths arise	calculate the		movements	charts and time	
through zero to	where	including: multiplying	when dividing an	perimeter of a	identify acute and	between	graphs.	
include negative	appropriate	by 0 and 1; dividing by	object by one	rectilinear figure	obtuse angles and	positions as		
numbers		1; multiplying together	hundred and	(including squares)	compare and	translations of	solve comparison,	
	estimate and	three numbers	dividing tenths by	in centimetres and	order angles up	a given unit to	sum and	
recognise the place	use inverse		ten.	metres	to two right	the left/right	difference	
value of each digit	operations to	recognise and use			angles by size	and up/down	problems using	
in a four-digit	check answers	factor pairs and	solve problems	find the area of			information	
number	to a calculation		involving	rectilinear shapes	identify lines of	plot specified	presented in bar	
(thousands,			increasingly harder		symmetry in 2-D	points and	charts,	
			fractions to		shapes presented	draw sides to	pictograms,	

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hundreds, tens, and	solve addition	commutativity in	calculate quantities,	by counting	in different	complete a	tables and other
ones)	and subtraction	mental calculations	and fractions to	squares	orientations	given polygon.	graphs.
	two-step		divide quantities,				
order and compare	problems in	multiply two-digit and	including non-unit	estimate, compare	complete a		
numbers beyond	contexts,	three-digit numbers	fractions where the	and calculate	simple symmetric		
1000	deciding which	by a one-digit number	answer is a whole	different measures,	figure with		
	operations and	using formal written	number	including money in	respect to a		
identify, represent	methods to use	layout solve problems		pounds and pence	specific line of		
and estimate	and why.	involving multiplying	add and subtract		symmetry.		
numbers using		and adding, including	fractions with the	read, write and			
different		using the distributive	same denominator	convert time			
representations		law to multiply two		between analogue			
		digit numbers by one	recognise and write	and digital 12- and			
round any number		digit, integer scaling	decimal equivalents	24-hour clocks			
to the nearest 10,		problems and harder	of any number of				
100 or 1000		correspondence	tenths or	solve problems			
		problems such as n	hundredths	involving			
solve number and		objects are connected		converting from			
practical problems		to m objects.	recognise and write	hours to minutes;			
that involve all of			decimal equivalents	minutes to			
the above and with			•	seconds; years to			
increasingly large			to	months; weeks to			
positive numbers				days.			
,			find the effect of	,			
read Roman			dividing a one- or				
numerals to 100 (I			two-digit number by				
to C) and know that			10 and 100,				
over time, the			identifying the value				
numeral system			of the digits in the				
changed to include			answer as ones,				
the concept of zero			tenths and				
and place value.			hundredths				
			round decimals with				
			one decimal place to				
			the nearest whole				
			number				
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			compare numbers with the same number of decimal places up to two decimal places solve simple measure and money problems involving fractions and decimals to two decimal places.				
Notes and guida Using a variety of representations, including measures, pupils become fluent in the order and place value of numbers beyond 1000, including counting in tens and hundreds, and maintaining fluency in other multiples through varied and frequent practice. They begin to extend their knowledge of the number system to include the decimal numbers and	nce (non-statu Pupils continue to practise both mental methods and columnar addition and subtraction with increasingly large numbers to aid fluency	tory)Pupils continue to practise recalling and using multiplication tables and related division facts to aid fluency.Pupils practise mental methods and extend this to three-digit numbers to derive facts, (for example 600 \div 3 = 200 can be derived from 2 x 3 = 6).Pupils practise to become fluent in the formal written method of short multiplication and short division with exact answers (see	Pupils should connect hundredths to tenths and place value and decimal measure. They extend the use of the number line to connect fractions, numbers and measures. Pupils understand the relation between non-unit fractions and multiplication and division of quantities, with particular emphasis	Pupils build on their understanding of place value and decimal notation to record metric measures, including money. They use multiplication to convert from larger to smaller units. Perimeter can be expressed algebraically as 2(<i>a</i> + <i>b</i>) where a and b are the dimensions in the same unit.	Pupils continue to classify shapes using geometrical properties, extending to classifying different triangles (for example, isosceles, equilateral, scalene) and quadrilaterals (for example, parallelogram, rhombus, trapezium). Pupils compare and order angles in preparation for using a protractor and compare	Pupils draw a pair of axes in one quadrant, with equal scales and integer labels. They read, write and use pairs of coordinates, for example (2, 5), including using coordinate- plotting ICT tools.	Pupils understand and use a greater range of scales in their representations. Pupils begin to relate the graphical representation of data to recording change over time.

fractions that they	Mathematics	on tenths and	They relate area to	lengths and	
have met so far.	Appendix 1).	hundredths.	arrays and	angles to decide if	
have met so far.	Appendix 1J.	nunui eutris.	multiplication.	a polygon is	
They connect	Pupils write	Pupils make	multiplication.	regular or	
estimation and	statements about the	connections		irregular.	
rounding numbers	equality of expressions	between fractions of		in egular.	
to the use of	(for example, use the	a length, of a shape		Pupils draw	
measuring	distributive law 39 × 7	and as a		symmetric	
instruments.	$= 30 \times 7 + 9 \times 7$ and	representation of		patterns using a	
instruments.	associative law (2 × 3)	one whole or set of		variety of media	
Bomon numerols	$x = 2 \times (3 \times 4)$. They	quantities. Pupils		to become	
Roman numerals	$\sim 4 - 2 \sim (3 \sim 4)$. They combine their	use factors and		familiar with	
should be put in				different	
their historical	knowledge of number facts and rules of	multiples to		orientations of	
context so pupils understand that	arithmetic to solve	rocognico oquivalant		lines of	
there have been	mental and written	recognise equivalent fractions and		symmetry; and	
	calculations for			recognise line	
different ways to	example, $2 \times 6 \times 5 = 10$	simplify where		symmetry in a	
write whole numbers and that	x = 60.	appropriate (for example, $6 = 2$ or		variety of	
	x 0 – 00.	93			
the important	Duraile ealite true store	1 = 2).		diagrams, including where	
concepts of zero	Pupils solve two-step	4 8		the line of	
and place value were introduced	problems in contexts,			symmetry does	
	choosing the	Pupils continue to		not dissect the	
over a period of	appropriate operation,	practise adding and		original shape.	
time.	working with	subtracting fractions		oligiliai silape.	
	increasingly harder	with the same			
	numbers. This should	denominator, to			
	include	become fluent			
	correspondence	through a variety of			
	questions such as the	increasingly			
	numbers of choices of	complex problems			
	a meal on a menu, or	beyond one whole.			
	three cakes shared				
	equally between 10	Pupils are taught			
	children.	throughout that			
		decimals and			
		fractions are			
		different ways of			

expressing numbers
and proportions.
Pupils'
understanding of
the number system
and decimal place
value is extended at
this stage to tenths
and then
hundredths. This
includes relating the
decimal notation to
division of whole
number by 10 and
later 100.
They practise
counting using
simple fractions and
decimals, both
forwards and
backwards.
Pupils learn decimal
notation and the
decimal places. They
notation and the language associated with it, including in the context of measurements.They make comparisons and order decimal amounts and quantities that are expressed to the same number of

	should be able to represent numbers with one or two decimal places in several ways, such as on number lines.		