Mathematics at St Augustine'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 ab	le 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,

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			to 4 ¹ , 2 ¹ , 3	seconds; years to			
increasingly large			4 / 2 / 4	months; weeks to			
positive numbers			find the effect of	days.			
			dividing a one- or				
read Roman			two-digit number by				
numerals to 100 (I			10 and 100,				
to C) and know that			identifying the value				
over time, the			of the digits in the				
numeral system			answer as ones,				
changed to include			tenths and				
the concept of zero			hundredths				
and place value.							
			round decimals with				
			one decimal place to				
			the nearest whole				
			number				

			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	Pupils continue to practise both mental methods and columnar addition and subtraction with increasingly large numbers to aid fluency	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 ÷ 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(a + b) 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	<u> </u>
have met so far.		hundredths.	·	_	
nave met so iai.	Appendix 1).	nunareaths.	arrays and	angles to decide if	
Theresees	D ila ika	Describe and lea	multiplication.	a polygon is	
They connect	Pupils write	Pupils make		regular or	
estimation and	statements about the	connections		irregular.	
rounding numbers	equality of expressions	between fractions of			
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	
	associative law (2 × 3)	one whole or set of		variety of media	
Roman numerals	\times 4 = 2 × (3 × 4)). They	quantities. Pupils		to become	
should be put in	combine their	use factors and		familiar with	
their historical	knowledge of number	multiples to		different	
context so pupils	facts and rules of			orientations of	
understand that	arithmetic to solve	recognise equivalent		lines of	
there have been	mental and written	fractions and		symmetry; and	
different ways to	calculations for	simplify where		recognise line	
write whole	example, 2 x 6 x 5 = 10	appropriate (for		symmetry in a	
numbers and that	x 6 = 60.	example, $_9^6 = _3^2$ or		variety of	
the important				diagrams,	
concepts of zero	Pupils solve two-step	$\binom{1}{4} = \binom{2}{8}$.		including where	
and place value	problems in contexts,	- 0 -		the line of	
were introduced	choosing the	Pupils continue to		symmetry does	
over a period of	appropriate operation,	practise adding and		not dissect the	
time.	working with	·		original shape.	
	increasingly harder	subtracting fractions			
	numbers. This should	with the same			
	include	denominator, to			
	correspondence	become fluent			
	questions such as the	through a variety of			
	numbers of choices of	increasingly			
	a meal on a menu, or	complex problems			
	three cakes shared	beyond one whole.			
	equally between 10				
	children.	Pupils are taught			
	Ciliuren.	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.	
later 100.	
They practise	
counting using	
simple fractions and	
decimals, both	
forwards and	
backwards.	
Pupils learn decimal	
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	
decimal places. They	

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