The Piggott School: Charvil Primary



'Go and do Likewise' Luke 10:25, -37 The Parable of the Good Samaritan We live with love and compassion, seeking help in times of need

Curriculum Map: Maths Year 5

Long Term Plan

Autumn	Spring	Summer
Investigating Number Systems	Reasoning with Measures	Visualising Shape
Pattern Sniffing	Discovering Equivalence	Exploring Change
Solving Calculation Problems	Reasoning and Fractions	Proportional Reasoning
Generalising Arithmetic	Solving Number Problems	Describing Position
Exploring Shape	Investigating Statistics	Measuring and Estimating

Content Declarative Knowledge 'I know' and Skills Procedural Knowledge 'I know how to'

Number			Measurement	Geometry		Statistics	
Number and Place Addition and Value Addition and Subtraction Division Fractions, Decimals & Percentages			Properties of Shapes	Position & Direction			
and compare numbers to at least 1 000 000 and determine the value of each digit (M1)	whole numbers with more than 4 digits, including using formal written methods (columnar	including finding all factor pairs of a	denominators are all multiples of the same number (M22)	example, kilometre	including cubes and other cuboids, from 2-D representations (M41)	and represent the position of a shape following a reflection or translation, using	

backwards in steps	add and subtract numbers mentally with increasingly large numbers (M8)	know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers	identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and	units and common	know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles (M42)	complete, read and interpret information in tables, including timetables (M49)
		(M12)	hundredths (M23)	as inches, pounds and pints (M35)		
count forwards and backwards with positive and negative whole numbers,	use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy (M9)	establish whether a number up to 100 is prime and recall prime numbers up to 19 (M13)	recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements > 1 as a mixed number [for example, $^2/_5 + ^4/_5 =$ $^6/_5 = 1 ^1/_5$ (M24)	measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres (M36)	draw given angles, and measure them in degrees (o) (M43)	
up to 1 000 000 to the nearest 10, 100, 1000, 10 000 and 100 000 (M4)	solve addition and subtraction multistep problems in contexts, deciding which operations and methods to use and why (M10)	multiply numbers up to 4 digits by a one- or two-digit number using a formal written method, including long multiplication for two-digit numbers (M14)	add and subtract fractions with the same denominator and denominators that are multiples of the same number (M25)	standard units, square centimetres (cm²) and square	identify: - angles at a point and one whole turn (total 360°) - angles at a point on a straight line and ¹ / ₂ a turn (total 180°) - other multiples of 90°(M44)	

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solve number	multiply and divide	multiply proper	_	use the properties of	
problems and	numbers mentally	fractions and mixed	example, using	rectangles to deduce	
practical problems	drawing upon known	numbers by whole	1 cm³ blocks to build	related facts and find	
that involve all of the	facts (M15)	numbers, supported	cuboids (including	missing lengths and	
above (M5)		by materials and	cubes)] and capacity	angles (M45)	
		diagrams (M26)	[for example, using		
			water] (M38)		
read Roman	divide numbers up	read and write	solve problems	distinguish between	
numerals to 1000	to 4 digits by a one-	decimal numbers as	involving converting	regular and irregular	
(M) and recognise	digit number using	fractions [for	between units of	polygons based on	
years written in	the formal written	example, 0.71 =	time (M39)	reasoning about	
Roman numerals	method of short	⁷¹ / ₁₀₀] (M27)		equal sides and	
(M6)	division and			angles. (M46)	
	interpret remainders				
	appropriately for the				
	context (M16)				
	multiply and divide	recognise and use	use all four		
	whole numbers and	thousandths and	operations to solve		
	those involving	relate them to	problems involving		
	decimals by 10, 100	tenths, hundredths	measure [for		
	and 1000 (M17)	and decimal	example, length,		
		equivalents (M28)	mass, volume,		
			money] using		
			decimal notation,		
			including scaling		
			(M40)		
	recognise and use	round decimals with			
	square numbers and	two decimal places			
	cube numbers, and	to the nearest whole			
	the notation for	number and to one			
	squared (2) and	decimal place (M29)			
	cubed (³) (M18)				

ii n d u k a s ((olve problems nvolving nultiplication and livision including using their nnowledge of factors and multiples, quares and cubes M19) read, write, or and compare numbers with three decimal (M30)	up to places	
ii s n d c t	olve problems nvolving addition, ubtraction, nultiplication and livision and a combination of hese, including understanding the neaning of the equals sign (M20)	per up	
s iu n d s f	recognise the cent symbol (sunderstand the cent relates to caling by simple ractions and problems involving imple rates (M21) recognise the cent symbol (sunderstand the cent relates to funder of path hundred', and percentages a fraction with denominator and as a decirity (M32)	6) and at per rts per write s a	

solve problems	
which require	
knowing percentage	
and decimal	
equivalents of 1/2,	
¹ / ₄ , ¹ / ₅ , ² / ₅ , ⁴ / ₅ and	
those fractions with	
a denominator of a	
multiple of 10 or 25.	
(M33)	

Vocabulary

Number and place	Addition and	Multiplication and	Measure	Geometry (position and	Geometry (properties	Fractions, decimals and
value	subtraction	division	ivieasure	direction)	of shape)	percentages
Powers of 10	Efficient written method	Factor pairs	Volume	Reflex angle	Regular and irregular	Proper fractions,
		Composite numbers,	Imperial units, metric	Dimensions	Polygons	improper fractions,
		prime number, prime	units			mixed numbers
		factors, square number,				Percentage
		cubed number				Half, quarter, fifth, two
		Formal written method				fifths, four fifths
						Ratio, proportion