

Holywell Primary School

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Maths subject coverage 2022-2023

Statutory requirements

Year group	Number and place value	Addition and subtraction	Multiplication and division	Fractions	Measurement	Geometry: properties of shapes	Geometry: position and direction	Statistics
EYFS	Children count reliably with numbers from 1 to 20, place them in order and say which number is one more or one less than a given number.	Using quantities and objects, they add and subtract two single-digit numbers and count on or back to find the answer.	They solve problems, including doubling, halving and sharing.		Children use everyday language to talk about size, weight, capacity, position, distance, time and money to compare quantities and objects and to solve problems. They recognise, create and describe patterns.	They explore characteristics of everyday objects and shapes and use mathematical language to describe them.	Children use everyday language to talk about position and distance.	
Year 1	 count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number count, read and write numbers to 100 in numerals; count in multiples of twos, fives and tens given a number, identify one more and one less identify and represent numbers using objects and pictorial representations including the number line, and use the language of: equal to, more 	 read, write and interpret mathematical statements involving addition (+), subtraction (-) and equals (=) signs represent and use number bonds and related subtraction facts within 20 add and subtract one-digit and two-digit numbers to 20, including zero solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as 7 = 0.9 	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	recognise, find and name a half as one of two equal parts of an object, shape or quantity recognise, find and name a quarter as one of four equal parts of an object, shape or quantity	compare, describe and solve practical problems for: - lengths and heights (for example, long/short, longer/shorter, tall/short, double/half) - mass / weight (for example, heavy/light, heavy/light, heavier than, lighter than) - capacity and volume (full/empty, more than, less than, half, half full, quarter) - time (quicker, slower, earlier, later)	recognise and name common 2-D and 3-D shapes, including: - 2-D shapes [for example, rectangles (including squares), circles and triangles] - 3-D shapes [for example, cuboids (including cubes), pyramids and spheres]	describe position, direction and movement, including whole, half, quarter and three-quarter turns	















	1							
	than, less than (fewer), most, least • read and write numbers from 1 to 20 in numerals and words				 measure and begin to record the following: lengths and heights mass/weight capacity and volume time (hours, minutes, seconds) recognise and know the value of different denominations of coins and notes sequence events in chronological order using language (for example, before and after, next, first, today, yesterday, tomorrow, morning, afternoon and evening) recognise and use language relating to dates, including days of the week, weeks, months and years tell the time to the hour and half past the hour and draw the hands on a 			
Year 2	count in steps of 2, 3,	solve problems with	recall and use	recognise, find, name	clock face to show these times choose and use	identify and describe	interpret and construct	
	and 5 from 0, and in tens from any number, forward or backward crecognise the place value of each digit in a two-digit number (tens, ones) cidentify, represent and estimate numbers using different representations, including the number line compare and order numbers from 0 up	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	 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 (×), division (÷) and 	and write fractions ${}^{1}_{,3}, {}^{1}_{,4}, {}^{2}_{,4}$ and ${}^{2}_{,4}$ 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 ${}^{1}_{,2}$.	appropriate standard units to estimate and measure length/height in any direction (m/cm); mass (kg/g); temperature (°C); capacity (litres/ml) to the nearest appropriate unit, using rulers, scales, thermometers and measuring vessels	the properties of 2-D shapes, including the number of sides and 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	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	

4- 400					T	1
to 100; use <, >		equals (=) signs	□□compare and order	a triangle on a		
and = signs	addition and		lengths, mass,	pyramid]		
□□read and write	subtraction facts to	$\Box \Box$ show that	volume/capacity	$\Box\Box$ compare and sort		
numbers to at le	20 maching, and	multiplication of	and record the	common 2-D and		
100 in numerals	derive and use	two numbers can	results using $>$, $<$	3-D shapes and		
and in words	related facts up to	be done in any	and =	everyday objects		
□□use place value a		order	□□recognise and use			
number facts to		(commutative) and	symbols for			
solve problems	$\Box \Box$ add and subtract	division of one	pounds (£) and			
	numbers using		pence (p); combine			
	concrete objects,	number by	amounts to make			
	pictorial	another cannot	a particular value			
	representations,		□ find different			
	and mentally,	□ solve problems	combinations of			
	including:	involving multiplication	coins that equal			
	- a two-digit	and division, using materials, arrays,	the same amounts			
	number and ones	repeated addition,	of money			
	- a two-digit	mental methods, and	\Box solve simple			
	number and tens	multiplication and	problems in a			
	- two two-digit	division facts, including	practical context			
	numbers	problems in contexts	involving addition			
	- adding three one-	problems in contexts	and subtraction of			
	digit numbers		money of the same			
	uigit numbers		unit, including			
	\Box show that addition of					
	two numbers can		giving change □□compare and			
			-			
	be done in any		sequence intervals of time			
	order					
	(commutative) and		$\Box \Box$ tell and write the			
	subtraction of one		time to five			
	number from	1	minutes,			
	another cannot		including quarter			
			past/to the hour			
	□□recognise and use the		and draw the			
	inverse relationship	1	hands on a clock			
	between addition and	1	face to show these			
	subtraction and use this		times.			
	to check calculations and		know the number of			
	missing number problems		minutes in an hour and			
		1	the number of hours in a			
		1	day	I		

	count from 0 in	add and subtract	Recall and use	count up and down in	measure, compare, add	draw 2-D shapes and make 3-D shapes using	Interpret and
Year 3	multiples of 4, 8, 50	numbers mentally,	multiplication and	tenths; recognise	and subtract: lengths	modelling materials; recognise 3-D shapes in	present data
	and 100; find 10 or 100	including:	division facts for the 3,	that tenths arise	(m/cm/mm); mass	different orientations and describe them	using bar charts.
	more or less than a	- a three-digit	4 and 8 multiplication	from dividing an	(kg/g); volume/capacity		pictograms and
	given number	number and ones	tables	object into 10 equal	(l/ml)	□□recognise that angles are a property of shape	tables
	0	- a three-digit		parts and in dividing	× ,	or a description of a turn	
	□ □ recognise the place	number and tens	□ □ write and calculate	one-digit numbers or	□ □ measure the	r	□ solve one-step
	value of each digit	- a three-digit	mathematical	quantities by 10	perimeter of simple	□ identify right angles, recognise that two right	and two-step
	in a three-digit	number and	statements for	□□recognise, find	2-D shapes	angles make a half-turn, three make three	questions[for
	number	hundreds	multiplication and	and write		guarters of a turn and four a complete turn;	example, 'How
	(hundreds, tens,		division using the	fractions of a	\square add and subtract	identify whether angles are greater than or	many more?' and
	ones)	 add and subtract 	multiplication	discrete set of	amounts of money	less than a right angle	'How many
	,	numbers with up to	tables that they	objects: unit	to give change,		fewer?'] using
	□□compare and order	three digits, using	know, including for	fractions and	using both £ and p	□□identify horizontal and vertical lines and pairs	information
	numbers up to	formal written	two-digit numbers	non-unit	in practical	of perpendicular and parallel lines	presented in
	1000	methods of	times one-digit	fractions with	contexts		scaled bar charts
		columnar addition	numbers, using	small			and pictograms
	□□identify, represent	and subtraction	mental and	denominators	□ tell and write the		and tables
	and estimate		progressing to	□□recognise and use	time from an		
	numbers using	 estimate the answer 	formal written	fractions as	analogue clock,		
	different	to a calculation and	methods	numbers: unit	including using		
	representations	use inverse		fractions and	Roman numerals		
		operations to check	$\Box \Box$ solve problems,	non-unit	from I to XII, and		
	□□read and write	answers	including missing	fractions with	12-hour and 24-		
	numbers up to		number problems,	small	hour clocks		
	1000 in numerals	 Solve problems, 	involving	denominators			
	and in words	including missing	multiplication and	□□recognise and	estimate and read		
		number problems,	division, including	show, using	time with increasing		
	□ solve number	using number facts,	positive integer	diagrams,	accuracy to the nearest		
	problems and	place value, and	scaling problems	equivalent	minute; record and compare time in terms		
	practical problems	more complex	and correspondence	fractions with	of seconds, minutes and		
	involving these	addition and	problems in which n	small	hours; use vocabulary		
	ideas	subtraction	objects are	denominators	such as o'clock,		
			connected to m	\square add and subtract	a.m./p.m., morning,		
			objects	fractions with	afternoon, noon and		
				the same	midnight		
				denominator	3		
				within one whole			
				(for example, ⁵ / ₇			
				1 6			
				$+ \frac{1}{7} = \frac{1}{7}$			
				□□compare and			
	count in multiples of 6,			order unit			
	7, 9, 25 and 1000		recognise and show,	fractions, and	compare and classify		
	□□find 1000 more or		using diagrams,	fractions with	geometric shapes,		
	less than a given		families of	the same	including		
	number		common	denominators	quadrilaterals and		
	□□count backwards		equivalent	□ solve problems	triangles, based on		
	through zero to		fractions	that involve all of the	their properties		
	include negative		□□count up and down	above	and sizes		
	numbers		in hundredths;		□ identify acute and		
	$\Box \Box$ recognise the place		recognise that		obtuse angles and		
	value of each digit		hundredths arise		compare and order		
	in a four-digit		when dividing an	convert between	angles up to two	describe positions on a 2-D grid as coordinates in	interpret and
	number	 add and subtract 	object by a	different units of	right angles by size	the first quadrant	present
	(thousands,	numbers with up to 4	hundred and	measure [for		the mot quantant	discrete and
		l	L		I	l	uiscrete anu

N/ -	hundreds, tens,	digits using the	dividing tenths by	example,	□ □ identify lines of	□□describe movements between positions as	continuous
Year 4	and ones)	formal written	dividing tenths by ten.	kilometre to	symmetry in 2-D	translations of a given unit to the left/right	data using
	\Box order and compare	methods of columnar	\square solve problems	metre; hour to	shapes presented	and up/down	appropriate
	numbers beyond	addition and	involving	minute]	in different	□□plot specified points and draw sides to	graphical
	1000	subtraction where	increasingly	□□measure and	orientations	complete a given polygon	methods,
	□ identify, represent	appropriate	harder fractions	calculate the	□ □ complete a simple	r r	including bar
	and estimate	estimate and use	to calculate	perimeter of a	symmetric figure		charts and
	numbers using	inverse operations to	quantities, and	rectilinear figure	with respect to a		time graphs
	different	check answers to a	fractions to divide	(including	specific line of		□□solve
	representations	calculation	quantities,	squares) in	symmetry		comparison,
	□□round any number	 solve addition and 	including non-	centimetres and	compare and classify		sum and
	to the nearest 10,	subtraction two-step	unit fractions	metres	geometric shapes,		difference
	100 or 1000	problems in contexts,	where the answer	$\Box\Box$ find the area of	including		problems
	□□solve number and	deciding which	is a whole	rectilinear	quadrilaterals and		using
	practical problems	operations and	number	shapes by	triangles, based on		information
	that involve all of	methods to use and	□ add and subtract	counting squares	their properties		presented in
	the above and with	why	fractions with the	□ □ estimate, compare	and sizes		bar charts,
	increasingly large		same	and calculate	$\Box\Box$ identify acute and		pictograms,
	positive numbers		denominator	different	obtuse angles and		tables and
	□ read Roman		□□recognise and write	measures,	compare and order		other graphs
	numerals to 100 (I to C) and know that over		decimal	including money	angles up to two right angles by size		
	time, the numeral		equivalents of any number of	in pounds and	\square identify lines of		
	system changed to		tenths or	pence □□read, write and	symmetry in 2-D		
	include the concept of		hundredths	convert time	shapes presented		
	zero and place value		□ □ recognise and write	between	in different		
			decimal	analogue and	orientations		
			1	digital 12 and	\Box complete a simple		
			equivalents to $/_{4}$;	24-hour clocks	symmetric figure		
			1. 3.	□ solve problems	with respect to a		
			¹ / ₂ ; ³ / ₄	involving converting	specific line of		
			 find the effect of 	from hours to minutes;	symmetry		
			dividing a one- or	minutes to seconds;			
			two-digit number	years to months;			
			by 10 and 100,	weeks to days			
			identifying the				
			value of the digits				
			in the answer as				
			ones, tenths and				
			hundredths				
			 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				
			0				
			fractions and				

			1	1	1	1
			decimals to two decimal places			
			decimal places			
	1					
	1					
	1					
	1					
L	L	L	1	1		

Year 5	and a second second second second		identify multiples and	compare and order	convert between	identify 3-D shapes,	$\Box \Box$ identify, describe	□□solve
	and compare numbers to at least 1 000	numbers with more than 4 digits, including using	factors, including finding all factor pairs	fractions whose	different units of	including cubes and other cuboids, from 2-D	and represent the position of a shape	comparison, sum and difference
	000 and determine the	formal written methods	of a number, and	denominators are all multiples of the same	metric measure (for example, kilometre	other cuboids, from 2-D representations	following a reflection	problems using
	value of each digit	(columnar addition and	common factors of two	number	and metre; centimetre	\square know angles are	or translation, using	information
	□□count forwards or	subtraction)	numbers.	□ identify, name	and metre; centimetre	measured in degrees:	the appropriate	presented in a
	backwards in steps of	$\Box \Box$ add and subtract	$\Box \Box$ know and use the	and write equivalent	and millimetre; gram	estimate and compare	language, and know	line graph
	powers of 10 for any given number up to	numbers mentally with	vocabulary of prime	fractions of a given	and kilogram; litre and	acute, obtuse and	that the shape has not	□□complete, read
	1 000 000	increasingly large	numbers, prime factors	fraction, represented	millilitre)	reflex angles	changed	and interpret information in
	□ □ interpret negative	numbers	and composite (non- prime) numbers	visually, including tenths and	□□understand and use approximate	□□draw given angles, and measure them in		tables, including
	numbers in context,	check answers to	\square establish whether a	hundredths	equivalences between	0		timetables
	count forwards and	calculations and	number up to 100 is	□□recognise mixed	metric units and	degrees ()		
	backwards with positive and negative whole	determine, in the	prime and recall prime	numbers and	common imperial units	□□identify: - angles at a point		
	numbers, including	context of a problem,	numbers up to 19	improper fractions	such as inches, pounds	and one whole turn		
	through zero	levels of accuracy	□ □ multiply numbers	and convert from one	and pints	0		
	□ round any number	□ solve addition and subtraction multi-step	up to 4 digits by a one- or two-digit number	form to the other and write mathematical	□□measure and calculate the perimeter	(total 360) - angles at a point		
	up to 1 000 000 to the	problems in contexts,	or two-digit number using a formal written	write mathematical statements > 1 as a	of composite rectilinear	on a straight line and		
	nearest 10, 100, 1000,	deciding which	method, including long	mixed number [for	shapes in centimetres	e 0		
	10 000 and 100 000	operations and methods	multiplication for two-	L.	and metres	¹ ⁄ ₂ a turn (total 180) - other multiples of		
	□ solve number	to use and why	digit numbers	example, $\frac{2}{5} + \frac{4}{5} = \frac{6}{5}$	$\Box \Box$ calculate and	0		
	problems and practical		□□multiply and divide	= 1 ¹ /_]	compare the area of	90		
	problems that involve all of the above		numbers mentally	⁵ ⊓⊐add and subtract	rectangles (including squares) using	 use the properties of rectangles 		
	□ read Roman		drawing upon known facts	fractions with the	squares) using standard units, square	to deduce related facts		
	numerals to 1000 (M)		 divide numbers up 	same denominator	2	and find missing		
	and recognise years		to 4 digits by a one-	and multiples of the	centimetres (cm) and $\frac{2}{2}$	lengths and angles		
	written in Roman		digit number using the	same number	square metres (m) and	distinguish between		
	numerals		formal written method	□□multiply proper	estimate the area of	regular and irregular polygons based on		
			of short division and	fractions and mixed numbers by whole	irregular shapes	reasoning about equal		
			interpret remainders appropriately for the	numbers, supported	□□estimate volume [for example, using 1	sides and angles		
			context	by materials and	cm ³ blocks to build	-		
			 multiply and divide 	diagrams	cm blocks to build cuboids(including			
			whole numbers and	□□read and write	cubes)] and			
			those involving	decimal numbers as	capacity[for example,			
			decimals by 10, 100 and 1000	fractions [for 71	using water]			
			 recognise and use 	example, $0.71 = \frac{71}{100}$	□ □ solve problems			
			square numbers and]	involving converting			
			cube numbers, and the	□□recognise and use	between units of time □□use all four			
			notation for squared $\binom{2}{1}$	thousandths and	operations to solve			
			3	relate them to tenths, hundredths	problems involving			
			and cubed () solve problems	and decimal	measure [for example,			
			 solve problems involving 	equivalents	length, mass, volume,			
			multiplication and	□□round decimals	money] using decimal notation including			
			division including	with two decimal	scaling			
			using their knowledge	places to the nearest	5			
			of factors and	whole number and to				
			multiples, squares and	one decimal place □□read, write, order				
			cubessolve problems	and compare				
			 solve problems involving addition, 	numbers with up to				
			subtraction,	three decimal places				
			multiplication and	*				

Veer 6	□□read write order	multinly multi-digit	division and a combination of these, including understanding the meaning of the equals sign solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates	□ solve problems involving number up to three decimal places □ recognise the per cent symbol (%) and understand that per cent relates to "number of parts per hundred", and write percentages as a fraction with denominator 100, and as a decimal □ solve problems which require knowing percentage and decimal equivalents of 1, 1, 2, 4, 5, 5, 4 and 2, 4, 5, 5, 4 and those with a denominator of a multiple of 10 or 25	Algebra	Monsurement	Geometry	Statistics
Year 6	 read, write, order and compare numbers up to 10 000 000 and determine the value of each digit round any whole number to a required degree of accuracy use negative numbers in context, and calculate intervals across zero solve number and practical problems that involve all of the above 	 multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication □divide numbers up to 4 digits by a two-digit whole number using the formal written method of long division, and interpret remainders as whole number remainders, fractions, or by rounding, as appropriate for the context divide numbers up to 4 digits by a two-digit number using the formal written method of short division where appropriate, interpreting remainders according to the context perform mental calculations, including with mixed operations and large numbers. identify common factors, common multiples and prime numbers 	Fractions (including decimals and percentages) use common factors to simplify fractions; use common multiples to express fractions in the same denomination \Box compare and order fractions >1 \Box add and subtract fractions >1 \Box add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions \Box multiply simple pairs of proper fractions, writing the answer in its simplest form [for example, $\frac{1}{4} \times \frac{1}{2} = \frac{1}{8}$] \Box divide proper fractions by whole numbers [for example, $\frac{1}{4} + 2 = \frac{1}{6}$]	Ratio and proportion	Algebra use simple formulae generate and describe linear number sequences express missing number problems algebraically find pairs of numbers that satisfy an equation with two unknowns enumerate possibilities of combinations of two variables	Measurement solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate use, read, write and convert between standard units, converting measurements of length, mass, volume and time from a smaller unit of measure to a larger unit, and vice versa, using decimal notation to up to three decimal places convert between miles and kilometres recognise that shapes with the same areas can have different perimeters and vice versa	Geometry: properties of shapes & Geometry: position, and direction draw 2-D shapes using given dimensions and angles recognise, describe and build simple 3-D shapes, including making nets compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals, and regular polygons lillustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius	 Statistics interpret and construct pie charts and line graphs and use these to solve problems calculate and interpret the mean as an average

 use their knowledge of 	associate a fraction	fractions and	□ □ recognise when it is		
	with division and	multiples	possible to use	□□recognise angles	
the order of operations		multiples	1	where they meet at a	
to carry out calculations	calculate decimal		formulae for area and	point, are on a straight	
involving the four	fraction equivalents		volume of shapes	line, or are vertically	
operations	[for example, 0.375] for		□□calculate the area of	opposite, and find	
 solve addition and 	a simple fraction [for		parallelograms and	missing angles	
subtraction multi-step	example, ³ /]		triangles		
problems in contexts,	8		□□calculate, estimate	 describe positions 	
deciding which	 identify the value 		and compare volume of	on the full coordinate	
operations and methods	of each digit to three		cubes and cuboids	grid (all four	
to use and why	decimal places and		using standard units,	quadrants)	
 solve problems 	multiply and divide		including centimetre		
involving addition,	numbers by 10, 100		cubed (cm ³) and cubic	 draw and 	
subtraction,	and 1000 giving			translate simple	
multiplication and	answers up to three		metres (m), and	shapes on the	
division	decimal places		extending to other	coordinate plane, and	
use estimation to check	 multiply one-digit 		units [for example mm ³	reflect them in the	
answers to calculations	numbers with up to		units [for example mm	axes	
and determine, in the	two decimal places by		and km]		
context of a problem, an	whole numbers		-		
appropriate degree of	 use written 				
accuracy	division methods in				
	cases where the answer				
	has up to two decimal				
	places				
	 solve problems 				
	which require answers				
	to be rounded to				
	specified degrees of				
	accuracy				
	 recall and use 				
	equivalences between		1		
	simple fractions,				
	decimals and		1		
			1		
	percentages, including				
	in different contexts				
	l	I	1	l	