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Place Value:

	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Place Value: Counting	Counting: Enjoys reciting numbers from 0 to 10 (and beyond) and back from 10 to 0. Increasingly confident at putting numerals in order 0 to 10 (ordinality). Cardinality: Counts out up to 10 objects from a larger group. Matches the numeral with a group of items to show how many there are (up to 10). Numerical patterns Verbally count beyond 20, recognising the pattern of the counting system.	-count to and across 100, forwards and backwards, beginning with 0 or 1 or from any given numbers -count numbers to 100 in numerals, count in multiples of twos, fives and tens	-count in steps of 2, 3 and 5 from 0 and in tens from any number, forward and backwards	-count from 0 in multiples of 4, 8, 50 and 100; find 10 more or less than a given number	-count in multiples of 6, 7, 9, 25 and 1000 - count backwards through zero to include negative numbers	-count forwards or backwards in steps of powers of 10 for any given number up to 1 000 000 - count forwards and backward with positive and negative whole numbers including through zero	



Place Value: Represent

Composition:

- Begins to conceptually subitise larger numbers by subitising smaller groups within the number, e.g. sees six raisins on a plate as three and three.
- Number
- Subitise (recognise quantities without counting) up to 5.

Composition: • Shows

awareness that numbers

are made up
(composed) of
smaller
numbers,
exploring
partitioning in
different ways
with a wide
range of
objects.
Numerical
Patterns
Explore and
represent

patterns within numbers up to 10, including -identify and represent numbers using objects and pictorial representations -read and write numbers to 100 in numerals -read and write numbers from 1 to 20 in numerals and words

-read and write
numbers to at least
100 in numerals
and words
-identify, represent
and estimate
numbers using
different
representations,
including the
number line

-identify, represent and estimate numbers using different representations -read and write numbers up to 1000 in numerals and words -identify, represent and estimate numbers using different representations - read Roman numerals to 100 (I to C) and know that over time, the numeral system changed to include the concept of zero and place value

-read, write
(order and
compare)
numbers to at
least 1 000 000
and determine
the value of each
digit

- read Roman numerals to 1000 (M) and recognise years written in Roman numerals - read, write (order and compare) numbers to at least 10 000 000 and determine the value of each digit



	evens and odds, double facts and how quantities can be distributed equally.						
Place Value: Compare	Comparison: Uses number names and symbols when comparing numbers, showing interest in large numbers. Estimates of numbers of things, showing understanding of relative size. Number Have a deep understanding of number to 10, including the composition of each number.	-given a number, identify one more and one less	-recognise the place value of each digit in a two digit number - compare and order numbers from 0 to 100: use <, > and = signs	-recognise the place value of each digit in a three digit number -compare and order numbers up to 1000	-find 1000 more or less than a given number - recognise the place value of each digit in a four digit numbercompare and order numbers beyond 1000	-(read, write) order and compare numbers to at least 1 000 000 and determine the value of each digit	-(read, write) order and compare numbers up to 10 000 000 and determine the value of each digit
	Numerical Patterns Compare quantities up to 10 in different						

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	contexts, recognising when one quantity is greater than, less than or the same as the other quantity.					
Place Value: Problems and Rounding		-use place value and number facts to solve problems	-solve number problems and practical problems involving these ideas	-round any number to the nearest 10, 100 and 1000 -solve number and practical problems that involve all of the above and with increasingly large positive numbers	-interpret negative numbers in context -round any number up to 1 000 000 to the nearest 10, 100, 1000, 10 000, and 100, 000 -solve number problems and practical problems that involve all of the above	-round any number to a required degree of accuracy - use negative numbers in context, and calculate intervals across zero -solve number problems and practical problems that involve all of the above

Addition and Subtraction

	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Addition &	Number	-read, write and	- recall and use	-estimate the	-estimate and use	-use rounding to	
Subtraction:	• Automatically	interpret	addition and	answer to a	inverse operations	check answers to	
Recall,	recall (without	mathematical	subtraction facts to	calculation and	to check answers	calculations and	
Represent	reference to	statements	20 fluently, and	use inverse	to a calculation	determine, in the	
and Use	rhymes,	involving addition,	derive and use			context of a	



	counting or	subtraction and	related facts up to	operations to		problem, levels of	
	other aids) number	equals (same as)	100	check answers		accuracy	
	bonds up to 5	signs	- show that				
	(including	-represent and	addition of two				
	subtraction facts) and	use number	numbers can be				
	some	bonds and related	done in any order				
	number	subtraction facts	(commutative) and				
	bonds to 10, including	within 20	subtraction of one				
	double facts.		number from				
	N		another cannot				
			-recognise and use				
			inverse relationship				
			between addition				
			and subtraction and				
			use this to check				
			calculations and				
			solve missing				
			number problems				
Addition &	Composition:	-add and subtract	-add and subtract	-add and subtract	-add and subtract	-add and subtract	-perform mental
Subtraction:	In practical	one-digit and two	numbers using	mentally	numbers with up	whole numbers	calculations,
Calculations	activities, adds	digit numbers to	concrete objects,	including:	to 4 digits using	with more than 4	including with
	one and subtracts one with numbers	20, including zero	pictorial	a three digit	the formal written	digits using the	mixed operations
	to 10.		representations	number and	method of	formal written	and large
			and mentally	ones, a three digit	columnar addition	methods	numbers
			including:	number and tens	and subtraction	(columnar addition	- use their
			a two digit number	and a three digit	where appropriate	and subtraction)	knowledge of the
			and ones, a two	number and		- add and subtract	order of
			digit number and	hundreds		numbers mentally	operations to
			tens, two two digit	-add and subtract		with increasingly	carry out
			numbers and	numbers with up		large numbers	calculations
			adding three one	to three digits,			involving the four
			digit numbers	using formal			operations



Addition & Subtraction: Solve Problems	Composition Begins to explore and work out mathematical problems, using signs and strategies of their own choice, including (when appropriate) standard numerals, tallies and '+' or '-'.	-solve on step problems that involve addition and subtraction, using concrete objects and pictorial representation and missing number problems	-solve problems with addition and subtraction: using concrete and pictorial representations, including those involving numbers, quantities and measures, -applying their increasing knowledge of mental and written methods	written methods of columnar addition and subtraction -solve problems including missing numbers, number problems, using number facts, place value and more complex addition and subtraction	-solve addition and subtraction two-step problems in context, deciding which operations and methods to use and why	-solve addition and subtraction two-step problems in context, deciding which operations and methods to use and why -solve problems involving addition, subtraction, multiplication and division and a combination of these including understanding the meaning of the equals sign	-solve addition and subtraction multi-step problems in contexts, deciding which operations and method to use and why
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Multiplication and Division

	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Multiplication and division : Recall, Represent and Use			-recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including	-recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables	- recall multiplication and division facts for multiplication tables up to 12 x 12	-identify multiples and factors, including finding all factor pairs of a number, and common factors of	-identify common factors, common multiples and prime numbers - use estimation to check answers to
			, ,			two numbers	calculations and



	recognising odd		- use place value,	- know and use the	determine, in the
	and even numbers		known and	vocabulary of	context of a
	-show that		derived facts to	prime numbers,	problem, an
	multiplication of		multiply and	prime factors and	appropriate degree
	two numbers can		divide mentally,	composite (non-	of accuracy.
	be done in any		including:	prime) numbers	or accuracy.
	order		multiplying by 0	- establish whether	
	(commutative) and		and 1; dividing by	a number up to	
	division of one		1; multiplying	100 is prime and	
	number by another		together three	recall prime	
	cannot		numbers 	numbers up to 19	
			- recognise and	-recognise and use	
			use factor pairs	square numbers	
			and	and cube numbers	
			commutativity in	and the correct	
			mental	notation	
			calculations		
Multiplication	-calculate	- write and	- multiply two	- multiply numbers	-multiply multi-
& Division: Calculations	mathematical	calculate	digit and three	up to 4 digits by a	digit numbers up
Calculations	statements for	mathematical	digit numbers by	one or two digit	to 4 digits by a two
	multiplication and	statements for	a one digit	number using	digit whole number
	division within the	multiplication	number using	formal written	using the formal
	multiplication	and division using	formal written	method including	written method of
	tables and write	the multiplication	layout	long multiplication	long multiplication
	them using the	tables that they		for two digit	- divide number up
	multiplication,	know, including		numbers	to 4 digits by a two
	division and equals	for two digit		- multiply and	digit whole number
	sign	numbers times		divide numbers	using the formal
		one digit		mentally drawing	written method for
		numbers, using		upon know facts	long division and
		mental and		- divide numbers	interpret
		progressing to		up to 4 digits by a	remainders as



			formal written		one digit number	whole number
			methods		using the formal	remainders,
			methods		written method of	fractions, or by
					short division and	rounding as
					interpret	appropriate for the
					remainders	context
					appropriately for	- divide number up
					context	to 4 digits by a two
					- multiply and	digit whole number
					divide whole	using the formal
					numbers and those	written method of
					involving decimals	short division
					by 10, 100 and	where appropriate
					1000	- perform mental
						calculations,
						including with
						mixed operations
						and large numbers
Multiplication	-solve one step	-solve problems	-solve problems	-solve problems	-solve problems	-solve problems
& Division: Solve	problems involving	involving	involving missing	involving	involving	involving addition,
Problems	multiplication and	multiplication and	numbers,	multiplying and	multiplication and	subtraction,
	division by	division using	multiplication	adding including	division including	multiplication and
	calculating the	materials, arrays,	and division	using the	using their	division
	answer using	repeated addition,	including positive	distributive law to	knowledge of	
	concrete objects,	mental methods	integers, scaling	multiply two digit	factors, multiples,	
	pictorial	and division facts	problems and	numbers, integer	squares and cubes	
	representations	including problems	correspondence	scaling problems	- solve problems	
	and arrays with the	in contexts	problems in	and harder	involving	
	support of the		which n objects	correspondence	multiplication and	
	teacher		are connected to	problems such as	division including	
			m objects	n objects are	scaling by simple	
					fractions and	

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			connected to m objects	problem involving simple rates	
Multiplication & Combined Operations				-solve problems involving addition, subtraction, multiplication and division and a combination of these, including the understanding of the equals sign	-use their knowledge of the order of operations to carry out calculations involving the four operations

Fractions, Decimals and Percentages

	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Fractions:		-recognise, find	-recognise, find,	-count up and	-count up and	-identify, name and	
Recognise		and name a half as	name and write	down in tenths,	down in	write equivalent	
Recognise and Write		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	name and write fractions $\frac{1}{3} \frac{1}{4} \frac{2}{4} \text{ and } \frac{3}{4} \text{ of a length, shape, set of objects or quantity}$	down in tenths, recognise that tenths arise from dividing an object into 10 equal parts and in dividing one digit numbers or quantities by 10recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small	down in hundredths; recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten.	write equivalent fractions of a given fraction, represented visually, including tenths and hundredths - recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements e.g. $\frac{2}{5}$ +	



	<u>-</u>				
		- recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators			
Fractions:	-recognise the	-recognise and	-recognise and	-compare and order	-use common
Compare	equivalence of $\frac{1}{2}$ and $\frac{2}{4}$	show using diagrams, equivalent fractions with small denominators - compare and order unit fractions and fractions with the same denominators	snow using diagrams families of common equivalent fractions	fractions whose denominators are all multiples of the same number	factors to simplify fractions; use common multiples to express fractions I the same denominator -compare and order fractions, including fractions >1
Fractions: Calculation s	-write simple fractions for example $\frac{1}{2}$ of 6 = 3	-add and subtract fractions with the same denominator within one whole e.g. $\frac{5}{7} + \frac{1}{7} = \frac{6}{7}$	- add and subtract fractions with the same denominator	-add and subtract fractions with the same denominator and denominators that are multiples of the same number - multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams	-add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions - multiply simple pairs of proper fractions, writing the answer in its simplest form



Fractions: Solve Problems That involve all of the above The above The above The above The above That involve all of the above The above That involve all of the above That involv	-divide proper fractions by whole numbers
Problems the above increasingly – harder fractions to calculate quantities and fractions to divide quantities including: non-unit fractions, where the answer is a whole number Pecimals: Recognise and Write decimal equivalences of any number of tenths and hundredths – recognise and write decimal equivalences to $\frac{1}{2}$ $\frac{1}{2}$ $\frac{2}{4}$ $\frac{1}{2}$ $\frac{1}{4}$ $\frac{1}{2}$ $\frac{2}{4}$ $\frac{1}{2}$ $\frac{1}{4}$	
harder fractions to calculate quantities and fractions to divide quantities including: non-unit fractions, where the answer is a whole number Decimals: Recognise and Write Precognise and Write Precognise and hundredths -recognise and hundredths -recognise and write decimal hundredths -recognise and write decimal hundredths -recognise and write decimal equivalences to $\frac{1}{2}$ $\frac{1}{2}$ $\frac{2}{4}$ $\frac{1}{4}$ $\frac{2}{4}$ $\frac{1}{4}$	
to calculate quantities and fractions to divide quantities including: non-unit fractions, where the answer is a whole number Pecimals: Recognise and Write	
quantities and fractions to divide quantities including: non-unit fractions, where the answer is a whole number Decimals: Recognise and Write The properties of tenths and hundredths recognise and write decimal equivalences of any number of tenths and hundredths recognise and write decimal equivalences to any number of tenths, hundredths and decimal equivalences to tenths, hundredths and decimal equivalences to tenths, recognise and write decimal equivalences to tenths, with one with two decimals with one	
fractions to divide quantities including: non-unit fractions, where the answer is a whole number Pecimals: Recognise and Write Recognise and Write Decimals:	
divide quantities including: non-unit fractions, where the answer is a whole number Pecimals: Recognise and Write Pecimals: A compare divide quantities including: non-unit fractions, where the answer is a whole number -recognise and write decimal equivalences of any number of tenths and hundredths -recognise and write decimal equivalences to $\frac{1}{4}$, $\frac{1}{2}$, $\frac{2}{4}$. Pecimals: Compare divide quantities including: non-unit fractions, where the answer is a whole number -read and write decimal decimal and write decimal equivalences to $\frac{1}{4}$, $\frac{1}{2}$, $\frac{2}{4}$. -round decimals with one	
including: non-unit fractions, where the answer is a whole number Pecimals: Recognise and Write The provided in the provided	
Decimals: Recognise and Write The properties of the transment of the properties of the transment of the properties of the transment of the properties of th	
where the answer is a whole number -recognise and write decimal equivalences of any number of tenths and hundredths relate them to tenths, hundredths write decimal equivalences to $\frac{1}{4}$ $\frac{1}{2}$ $\frac{2}{4}$ $\frac{2}{4}$ Decimals: Compare where the answer is a whole number -recognise and write decimal decimal equivalences to $\frac{1}{4}$ $\frac{1}{2}$ $\frac{2}{4}$ -round decimals with one where the answer is a whole number -read and write decimal decimal numbers as fractions - recognise and use thousandths and relate them to tenths, hundredths and decimal equivalences -round decimals with two decimals with two decimals	
Decimals: Recognise and Write decimal equivalences of any number of tenths and hundredths relate them to recognise and write decimal equivalences to $\frac{1}{4}$ $\frac{1}{2}$ $\frac{2}{4}$ $\frac{1}{4}$ $\frac{1}{4$	
Decimals: Recognise and Write decimal equivalences of any number of tenths and hundredths -recognise and write decimal equivalences to \frac{1}{4} \frac{1}{2} \frac{2}{4} \frac{1}{2} \frac{1}{4} \fr	
Pecimals: Recognise and Write And Write Recognise and Write And And And Write And And Write And And Write And And Write And And And Write And And Write And And Write And And Write And And And Write And And Write And And Write And And Write And And And Write And And Write And And Write And And Write And And And Write And And Write And And Write And And Write And And And Write And And And Write And	
Recognise and Write equivalences of any number of tenths and hundredths relate them to tenths, hundredths write decimal equivalences to $\frac{1}{4}$ $\frac{1}{2}$ $\frac{2}{4}$ $\frac{1}{2}$ $\frac{2}{4}$ $\frac{1}{2}$ $\frac{1}{4}$	
and Write equivalences of any number of tenths and hundredths -recognise and write decimal equivalences to \fractions - recognise and thousandths and relate them to tenths, hundredths and decimal equivalences to \fractions - recognise and use thousandths and relate them to tenths, hundredths and decimal equivalences The property of the property	-identify the value
any number of tenths and hundredths relate them to tenths, hundredths and write decimal equivalences to $\frac{1}{4}$ $\frac{1}{2}$ $\frac{2}{4}$ $\frac{1}{4}$ $\frac{2}{4}$ $\frac{1}{4}$ \frac	of each digit in
tenths and hundredths relate them to tenths, hundredths and decimal equivalences to $\frac{1}{4}$ $\frac{1}{2}$ $\frac{2}{4}$ \frac	numbers given to
hundredths relate them to tenths, hundredths and decimal equivalences to $\frac{1}{4}\frac{1}{2}\frac{2}{4}$ relate them to tenths, hundredths and decimal equivalences to $\frac{1}{4}\frac{1}{2}\frac{2}{4}$ round decimals with one relate them to tenths, hundredths and decimal equivalences $\frac{1}{4}\frac{1}{2}\frac{2}{4}$ round decimals with two decimals	three decimal
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	places
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	
Decimals: Compare-round decimals with one-round decimals with one-round decimals with two decimal	
Decimals: Compare-round decimals with one-round decimals with one-round decimals with two decimal	
Compare with one with two decimal	
· · · · · · · · · · · · · · · · · · ·	
The state of the s	
the nearest whole number and	
whole number to one decimal place	



-compare numbers with the same number of decimal places up to two decimal places. Decimals: Calculation s and Problems -solve pro involving r to three decimal places -find the effect of dividing a one or two digit number by 10 and 100, identifying the value of digits in the answer as ones, tenths and hundredths	olems -multiply and divide numbers by
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Fractions,			-solve simple	-recognise the	-associate a
Decimals			measure and	percent symbol and	fraction with
and			money	understand that	division and
Percentage			problems	percent relates to	calculate decimal
S			involving	'number of parts per	fraction
			fractions and	hundred' and write	equivalents
			decimals to two	percentages as a	-recall and use
			decimal places	fraction with	equivalences
				denominator 100,	between simple
				and as a decimal	fractions, decimals
				-solve problems	and percentages,
				which require	including in
				knowing percentage	different contexts
				and decimal	
				equivalences of	
				$\frac{1}{2}\frac{1}{4}\frac{1}{5}\frac{2}{5}\frac{4}{5}$ and those	
				fractions with a	
				denominator of a	
				multiple of 10 or 25	
				multiple of 10 of 25	

Ratio and Proportion

	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Ratio and							-solve problems
Proportion							involving the relative
							sizes of two quantities
							where missing values
							can be found by using
							integer multiplication
							and division facts

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			- solve problems
			involving the
			calculation of
			percentages and the
			use of percentages for
			comparison
			- solve problems
			involving similar shapes
			where the scale factor
			is known or can be
			found
			- solve problems
			involving unequal
			sharing and grouping
			using knowledge of
			fractions and multiples

Algebra

	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Algebra		-Solve one step problems that involve addition and subtraction, using concrete	-recognise and use the inverse relationship between addition and subtraction	- solve problems including missing number problems			-use simple formulae -generate and describe linear number sentences - express missing number problems
		objects and pictorial representations and missing number problems such as 7 = -9	and use this to check calculations and solve missing number problems				algebraically -find pairs of numbers that satisfy an equation with two unknowns -enumerate possibilities of combinations of two values



Measurement

	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Measurement : Using Measures	Measures: Enjoys tackling problems involving prediction and	-compare, describe and solve practical problems for: length/height,	-choose and use appropriate standard units to estimate and measure length/	-measure, compare add and subtract; lengths (m,cm,mm);, mass (kg,g);	-convert between different units of measure -estimate,	- convert between different units of measure - understand and	-solving problems involving the calculations and conversions of units of measure, using decimal notation up to
	discussion of comparisons of length, weight or capacity, paying attention to fairness and accuracy. Becomes familiar with measuring tools in everyday experiences and play.	mass/weight, capacity/volume and time - measure and begin to record the following: length/height, mass/weight, capacity/volume and time	height in any direction (m,cm); mass (kg,g); temperature(C), capacity (l,ml) to the nearest appropriate unit using rulers, scales, thermometers and measuring vessels - compare and order length, mass, volume/capacity and record the results using <, >	volume and capacity (I,ml)	compare and calculate different measures	use approximate equivalences between metric units and common imperial units such as inches, pounds and pints -use all four operations to solve problems involving measures using decimal notation, including scaling	three decimals 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 up to three decimal places -convert between miles and kilometers



Measurement : Money		-recognise and know the value of different denomination of notes and coins	-recognise and use symbols for pounds and pence; combine amounts to make a particular value find different combinations of coins that equal the same amount of money - solve simple problems in practical contexts involving addition and subtraction of money of the same unit, including giving	-add and subtract amounts of money to give change, using both £ and p in practical contexts	-estimate, compare and calculate different measures, including money in pounds and pence	- use all four operations to solve problems involving measure	
			change				
Measurement : Time	Is increasingly able to order and sequence events using everyday language related to time. Beginning to experience measuring time with	-sequence events in chronological order using the correct language - recognise and use language relating to dates, including days of the week, weeks, months and years - tell the time to the hour and half	-compare and sequence intervals of time -tell and write the time to five minutes including quarter past/to the hour and draw the hands on a clock face to show these times	-tell the time from an analogue clock, including Roman Numerals and 12 hours and 24 hours clocks estimate and read time with increasing accuracy to the nearest minute; record and	-read, write and convert time between analogue and digital 12 and 24 hour clocks - solve problems involving converting from hours to minutes, minutes to	-solve problems involving converting between units of time	-use, read, write and convert between standard units, converting measurements of time from a smaller unit of measure to a larger unit and vice versa



	timers and calendar.	past the hour and draw the hands on a clock face to show these times	-know the number of minutes in an hour and the number of hours in a day	compare time in terms of seconds, minutes, and hours -know the number of seconds in a minute and the number of days in each month, year and leap year -compare durations of events	seconds; years to months; weeks to days		
Measurement : Perimeter, Area and Volume				-measure the perimeter of simple 2D shapes	-measure and calculate the perimeter of rectilinear figure in centimeters and meters - find the area of rectilinear shapes by counting squares	-measure and calculate the perimeter of composite rectilinear shapes in centimeters and meters -calculate and compare the area of rectangles using standard units, square centimetres and square metres and estimate the area of irregular shapes	-recognise that shapes with the same areas can have different perimeters and vice versa recognise when it is possible to use formulae for area and volumes of shapes - calculate the area of parallelograms and triangles -calculate, estimate and compare volume of cubes and cuboids using standard units, including cubic centimetres (cm3), and cubic metres (m3),



			-estimate volume	and extending to other
			and capacity	units [for example, mm3
				and km3].

EY	FS Y	'ear 1	Year 2	Year 3	Year 4	Year 5	Year 6
• Investurning flipping in order makes and commode prediction wisual they will be a second for the shape as we math terms described as we math terms described for the shape as we will be shaped for the shape as we will be shaped for the shape as we will be shaped for the shaped	eness tigates ng and ng objects der to shapes fit reate els; cting and dising how will look al ning). informal age and gies, (e.gshaped and- ed leaves), ell as ematical is to ibe es. s oosing and mposing es, ing which	common	-identify and describe the properties of 2D shapes including the number of sides and lines of symmetry -identify 2D shapes on the surface of 3D shapes -compare and sort common 2D shapes and everyday objects	-draw 2D shapes	-compare and classify geometric shapes, including quadrilaterals and triangles based on their properties and sizes -identify lines of symmetry in 2D shapes presented in different orientations	-distinguish between regular and irregular polygons based on reasoning about equal sides and angles -use the properties of rectangles to deduce related facts and find missing lengths and angles	-draw 2D shapes using given dimensions and angles -compare and classify geometric shapes based upon their properties and size -illustrate and name parts of circles including: radius, diameter and circumference and know the diameter is twice the radius



Geometry: 3D Shapes	make other shapes. Pattern: Spots patterns in the environment, beginning to identify the pattern "rule". Chooses familiar objects to create and recreate repeating patterns beyond AB patterns and begins to identify the unit of repeat. Shape: Uses own ideas to make models of increasing complexity, selecting blocks needed, solving problems and visualising what they will build	-recognise and name common 3D shapes	- recognise and name common 3D shapes - compare and sort common 3-D shapes and everyday objects.	-make 3D shapes using modeling materials; recognise 3D shapes in different orientations and describe them		-identify 3D shapes including cubes and other cuboids from 2D representations	-recognise, describe and build simple 3D shapes including making nets
Geometry: Angles and Lines				-recognise angles as a property of shape or a description of a turn -identify right angles, recognise that two right	-identify acute and obtuse angles and compare and order angles up to two right angles by size	-know angles are measured in degrees; estimate and compare acute, obtuse and reflex angles -draw given angles and	-find known angles in any triangle, quadrilaterals and regular polygons - recognise angles where they meet at a point, are on a straight line, or are



				angles make a half turn, three make three quarters of a turn and four a complete turn. Identify whether angles are greater than or less than a right angle -identify horizontal and vertical lines and pairs of perpendicular and parallel lines	-identify lines of symmetry in 2D shapes presented in different orientations -complete a simple symmetric figure with respect to a specific line of symmetry	measure them in degrees - identify: - angles at a point and one whole turn (total 360°) - angles at a point on a straight line and ½a turn (total 180°) other multiples of 90°	vertically opposite, and find missing angles
Geometry: Position and Direction	Spatial Awareness: Uses spatial language, including following and giving directions, using relative terms and describing what they see from different viewpoints. May enjoy making simple maps of	-describe position, direction and movement, including whole, half, quarter, and three quarter turns	-order and arrange combinations of mathematical objects in patterns and sequences -use mathematical vocabulary to describe position, direction and movement, including		-describe positions on a 2-D grid as coordinates in the first quadrant - describe movements between positions as translations of a given unit to the left/right and up/down	-identify, describe and represent the position of a shape following a reflection or translation using the appropriate language and know that the shape has not changed	-describe positions on the full coordinate grid -draw and translate simple shapes on the coordinate plane, and reflect them in the axes

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familiar and imaginative environments,		novement in a straight line and	- plot specified points and draw	
with	d	distinguishing	sides to	
landmarks.	b	etween rotation	complete a	
	а	is a turn and in	given polygon.	
		erms of right		
		angles for		
		quarter, half and		
		hree-quarter		
		urns (clockwise		
		and		
	a	nticlockwise).		

Statistics

	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Statistics: Present and Interpret			-interpret and construct simple pictograms, tally charts, block diagrams and simple tables	-interpret and present data using bar charts, pictograms and tables	-interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs	-complete, read and interpret information in tables, including timetables	-interpret and construct pie charts and line graphs and use these to solve problems
Statistics: Solve			-ask and answer simple questions	-solve one and two step	-solve comparison,	-solve comparison, sum	-calculate and interpret the mean as an average
Problems			by counting the number of	questions using information	sum and difference	and difference problems using	



objects in each	presented in	problems using	information	
category and	scaled bar charts	information	presented in a	
sorting the	and pictograms	presented in bar	line graph	
categories by	and tables	charts,		
quantity		pictograms		
-ask and answer		tables and other		
questions about		graphs		
totaling and				
comparing data				