Year 4 overview (statutory requirements)

value su	Addition and	Multiplication and	Fractions (including decimals)	Measurement	Geometry:	Geometry:	Statistics
	ubtraction	division	Pupils should be taught to:	Dunilo chould be	properties of	position and	Dunila abauld ba
 count in multiples of 6, 7, 9, 25 and 1000 find 1000 more or less than a given number count backwards through zero to include negative numbers recognise the place value of each digit in a four-digit number (thousands, hundreds, tens, and ones) order and compare numbers beyond 1000 identify, represent and estimate numbers using different representations round any number to the nearest 10, 100 or 1000 		 Multiplication and division Pupils should be taught to: recall multiplication and division facts for multiplication tables up to 12 × 12 use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together three numbers recognise and use factor pairs and commutativity in mental calculations multiply two-digit and three-digit numbers by a one-digit number using formal written layout solve problems involving multiplying using the distributive law to multiply two digit numbers by one digit, integer scaling problems and harder correspondence problems such as n objects 		 Measurement Pupils should be taught to: convert between different units of measure [for example, kilometre to metre; hour to minute] measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres find the area of rectilinear shapes by counting squares estimate, compare and calculate different measures, including money in pounds and pence read, write and convert time between analogue and digital 12 and 24-hour clocks solve problems involving converting from hours to 	-	-	Statistics Pupils should be taught to: Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs

Y4 notes and guidance (non-statutory)

 Teaching and Learning 	(I to C) and know that over time, the numeral				to seconds; years to months; weeks to days							
d Le:	system changed to include the											
g an	concept of zero											
achin	and place value											
	Y4 notes and guidance (non-statutory)											
Learnin	Number and place value	Addition and subtraction	Multiplication and division	Fractions (including decimals) Pupils should connect hundredths to	Measurement Pupils build on their	Geometry: properties of shapes	Geometry: position, and direction	Statistics Pupils				
Herts for Learning	Using a variety of representations, including measures,	Pupils continue to practise both mental methods	Pupils continue to practise recalling and using multiplication tables and	tenths and place value and decimal measure.	understanding of place value and decimal notation to	Pupils continue to classify shapes	Pupils draw a pair of axes in	understand and use a greater range of scales				
_	pupils become fluent in the order and	and columnar addition and subtraction with	related division facts to aid fluency. Pupils practise mental	They extend the use of the number line to connect fractions, numbers and measures.	record metric measures,	using geometrical properties,	one quadrant, with equal	in their representations.				
	place value of numbers beyond 1000, including counting in tens and hundreds, and	increasingly large numbers to aid fluency (see	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 understand the relation between non-unit fractions and multiplication and division of quantities, with particular emphasis on tenths and hundredths	including money. They use multiplication to convert from larger	extending to classifying different triangles (for example, isosceles,	scales and integer labels. They read, write and use pairs of	Pupils begin to relate the graphical representation				
	maintaining fluency in other multiples through varied and frequent practice.	Mathematics Appendix 1).	Pupils practise to become fluent in the formal written method of short multiplication and short	Pupils make connections between fractions of a length, of a shape and as a representation of one whole or set of quantities. Pupils use factors and	to smaller units. Perimeter can be expressed	equilateral, scalene) and quadrilaterals (for example,	coordinates, for example (2, 5), including using	of data to recording change over time.				
	They begin to extend their knowledge of the number system to		division with exact answers (see Mathematics Appendix 1). Pupils write statements	multiples to recognise equivalent fractions and simplify where appropriate (for example, ${}^{6}_{9} = {}^{2}_{/_{3}}$ or ${}^{1}_{/_{4}} = {}^{2}_{/_{8}}$).	algebraically as 2(a + b) where a and b are the dimensions in the same unit.	parallelogram, rhombus, trapezium).	coordinate- plotting ICT tools.					
	include the decimal numbers and fractions that they have met so far.		about the equality of expressions (for example, use the distributive law 39 $x 7 = 30 \times 7 + 9 \times 7$ and	Pupils continue to practice adding and subtracting fractions with the same denominator, to become fluent through a variety of increasingly complex problems	They relate area to arrays and multiplication.	Pupils compare and order angles in preparation for using a protractor and compare						
	They connect estimation and rounding numbers to the use of measuring		associative law $(2 \times 3) \times 4$ = 2 × (3×4)). They combine their knowledge of number facts and rules of arithmetic to colve montal	beyond one whole. Pupils are taught throughout that decimals and fractions are different ways of expressing numbers and proportions.		lengths and angles to decide if a polygon is regular or						
	instruments.		arithmetic to solve mental and written calculations for example, $2 \times 6 \times 5 = 10 \times 6$ = 60.	Pupils' understanding of the number system and decimal place value is extended at this stage to tenths and then		irregular. Pupils draw						
	should be put in their historical context so pupils understand		Pupils solve two-step problems in contexts, choosing the appropriate	hundredths. This includes relating the decimal notation to division of whole number by 10 and later 100.		symmetric patterns using a variety of media to						
	that there have been different ways to write whole numbers		operation, working with increasingly harder numbers. This should	They practise counting using simple fractions and decimal fractions, both forwards and backwards.		become familiar with different orientations of						
	and that the important concepts of zero and place value were introduced over		include correspondence questions such as the numbers of choices of a	Pupils learn decimal notation and the language associated with it, including in the context of measurements. They make		lines of symmetry; and recognise line symmetry in a variety of						
	a period of time.		meal on a menu, or three cakes shared equally between 10 children.	comparisons and order decimal amounts and quantities that are expressed to the same number of decimal places. They		diagrams, including where the line of						
				should be able to represent numbers with one or two decimal places in several ways, such as on number lines.		symmetry does not dissect the original shape.						

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