

Measurement

Pupils should be taught to:

- measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml)
- measure the perimeter of simple 2-D shapes
- add and subtract amounts of money to give change, using both £ and p in practical contexts
- tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour clocks
- estimate and read time with increasing accuracy to the nearest minute; record and compare time in terms of seconds, minutes and hours; use vocabulary such as o'clock, a.m./p.m., morning, afternoon, noon and midnight
- know the number of seconds in a minute and the number of days in each month, year and leap year

compare durations of events [for example to calculate the time taken by particular events or tasks].

Geometry -		Statistics
Properties of Shapes	Position and Direction	Pupils should be taught to:
Properties of Snapes Pupils should be taught to: draw 2-D shapes and make 3-D shapes using modeling materials; recognise 3-D shapes in different orientations and describe them recognise angles as a property of shape or a description of a turn identify right angles, recognise that two right 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.	N/A	 Pupils should be taught to: interpret and present data using bar charts, pictograms and tables solve one-step and two-step questions [for example, 'How many more?' and 'How many fewer?'] using information presented in scaled bar charts and pictograms and tables.



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Number			
Number and Place Value	Addition and Subtraction	Multiplication and Division	Fractions (including decimals)
Pupils should be taught to 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	Addition and Subtraction Pupils should be taught to: add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate estimate and use inverse operations to check answers to a calculation		Pupils should be taught to: recognise and show, using diagrams, families of common equivalent fractions count up and down in hundredths; recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten.
 (thousands, hundreds, tens, and ones) order and compare numbers beyond 1000 identify, represent and estimate numbers using different representations 	 solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why. 	 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 	 solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number add and subtract fractions with the same denominator
 round any number to the nearest 10, 100 or 1000 solve number and practical problems that involve all of the above and with increasingly large positive numbers 		multiplying and adding, including using the distributive law to multiply two digit numbers by one digit, integer scaling problems and harder correspondence problems such as n objects are connected to m objects.	 recognise and write decimal equivalents of any number of tenths or hundredths recognise and write decimal equivalents to ¹/₄, ¹/₂, ³/₄
 read Roman numerals to 100 (I to C) and know that over time, the numeral system changed to include the concept of zero and 			 find the effect of dividing a one- or two-digit number by 10 and 100, identifying the value of the

place value.			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 fractions and decimals to two decimal places.
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 minutes; minutes to seconds; years to months; weeks to days.

	Geometry -		Statistics
	Properties of Shapes	Position and Direction	Pupils should be taught to:
1	Pupils should be taught to:	Pupils should be taught to:	interpret and present discrete and continuous data using
	compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes	describe positions on a 2-D grid as coordinates in the first quadrant describe movements between positions as translations of a	 and continuous data using appropriate graphical methods, including bar charts and time graphs. solve comparison, sum and

identify acute and obtuse angles and compare and order angles up to two right angles by size identify lines of symmetry in 2-D shapes presented in different orientations complete a simple symmetric figure with respect to a specific line of symmetry.		difference problems using information presented in bar charts, pictograms, tables and other graphs.
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