

<b>Year 4</b>		<b>Year 5</b>		<b>Year 6</b>	
		Multiply and divide any positive integer up to 10 000 by 10 or 100 and understand the effect.		Multiply and divide decimals mentally by 10 or 100, and integers by 1000, and explain the effect.	
Use symbols correctly, including less than (<), greater than (>), equals (=).		Order a given set of positive and negative integers.		Order a mixed set of numbers with up to three decimal places.	
				Reduce a fraction to its simplest form by cancelling common factors.	
		Use decimal notation for tenths and hundredths.		Use a fraction as an operator to find fractions of numbers or quantities (e.g. 5/8 of 32, 7/10 of 40, 9/100 of 400 centimetres).	
Round any positive integer less than 1000 to the nearest 10 or 100.		Round a number with one or two decimal places to the nearest integer.		Understand percentage as the number of parts in every 100, and find simple percentages of small whole-number quantities.	
Recognise simple fractions that are several parts of a whole, and mixed numbers; recognise the equivalence of simple fractions.		Relate fractions to division and to their decimal representations.		Solve simple problems involving ratio and proportion.	
Use known number facts and place value to add or subtract mentally, including any pair of two-digit whole numbers.		Calculate mentally a difference such as 8006 - 2993.			
Carry out column addition and subtraction of two integers less than 1000, and column addition of more than two such integers.		Carry out column addition and subtraction of positive integers less than 10 000.		Carry out column addition and subtraction of numbers involving decimals.	
Know by heart facts for the 2, 3, 4, 5 and 10 multiplication tables.		Know by heart all multiplication facts up to 10 x 10.		Derive quickly division facts corresponding to multiplication tables up to 10 x 10.	
Derive quickly division facts corresponding to the 2, 3, 4, 5 and 10 multiplication tables.		Carry out short multiplication and division of a three-digit by a single-digit integer.		Carry out short multiplication and division of numbers involving decimals.	
Find remainders after division.		Carry out long multiplication of a two-digit by a two-digit integer.		Carry out long multiplication of a three-digit by a two-digit integer.	
Know and use the relationships between familiar units of length, mass and capacity.		Understand area measured in square centimetres (cm <sup>2</sup> ); understand and use the formula in words 'length x breadth' for the area of a rectangle.		Use a protractor to measure acute and obtuse angles to the nearest degree.	
Classify polygons, using criteria such as number of right angles, whether or not they are regular, symmetry properties.		Recognise parallel and perpendicular lines, and properties of rectangles.		Calculate the perimeter and area of simple compound shapes that can be split into rectangles.	
				Read and plot co-ordinates in all four quadrants.	
Choose and use appropriate number operations and ways of calculating (mental with jottings, pencil and paper) to solve problems.		Use all four operations to solve simple word problems involving numbers and quantities, including time, explaining methods and reasoning.		Identify and use the appropriate operations (including combinations of operations) to solve word problems involving numbers and quantities, and explain methods and reasoning.	
				Solve a problem by extracting and interpreting information presented in tables, graphs and charts	