



Number – Number and Place Value	Number – Addition and Subtraction	Number – Multiplication and Division
<ul style="list-style-type: none"> • Count from 0 in multiples of 4, 8, 50 and 100 • Count up and down in tenths • Read and write numbers up to 1000 in numerals and in words • <i>Read and write numbers with one decimal place</i> • Identify, represent and estimate numbers using different representations (including the number line) • Recognise the place value of each digit in a three-digit number (hundreds, tens, ones) • <i>Identify the value of each digit to one decimal place</i> • <i>Partition numbers in different ways (e.g. 146 = 100+ 40+6 and 146 = 130+16)</i> • Compare and order numbers up to 1000 • <i>Compare and order numbers with one decimal place</i> • Find 1, 10 or 100 more or less than a given number • <i>Round numbers to at least 1000 to the nearest 10 or 100</i> • <i>Find the effect of multiplying a one- or two-digit number by 10 and 100, identify the value of the digits in the answer</i> • <i>Describe and extend number sequences involving counting on or back in different steps</i> • <i>Read Roman numerals from I to XII</i> • Solve number problems and practical problems involving these ideas 	<ul style="list-style-type: none"> • <i>Choose an appropriate strategy to solve a calculation based upon the numbers involved (recall a known fact, calculate mentally, use a jotting, written method)</i> • <i>Select a mental strategy appropriate for the numbers involved in the calculation</i> • <i>Understand and use take away and difference for subtraction, deciding on the most efficient method for the numbers involved, irrespective of context</i> • <i>Recall/use addition/subtraction facts for 100 (multiples of 5 and 10)</i> • <i>Derive and use addition and subtraction facts for 100</i> • <i>Derive and use addition and subtraction facts for multiples of 100 totalling 1000</i> • Add and subtract numbers mentally, including: <ul style="list-style-type: none"> - a three-digit number and ones - a three-digit number and tens - a three-digit number and hundreds • Add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction • Estimate the answer to a calculation and use inverse operations to check answers • Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction 	<ul style="list-style-type: none"> • <i>Choose an appropriate strategy to solve a calculation based upon the numbers involved (recall a known fact, calculate mentally, use a jotting, written method)</i> • <i>Understand that division is the inverse of multiplication and vice versa</i> • <i>Understand how multiplication and division statements can be represented using arrays</i> • <i>Understand division as sharing and grouping and use each appropriately</i> • Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables • <i>Derive and use doubles of all numbers to 100 and corresponding halves</i> • <i>Derive and use doubles of all multiples of 50 to 500</i> • Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods • <i>Use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy</i> • Solve problems, including missing number problems, involving multiplication and division (and interpreting remainders), including positive integer scaling problems and correspondence problems in which n objects are connected to m objects
Number – Fractions	Geometry – Properties of Shapes	Measures
<ul style="list-style-type: none"> • <i>Show practically or pictorially that a fraction is one whole</i> $\frac{3}{4}$ <i>number divided by another (e.g. $\frac{3}{4}$ can be interpreted as 3 ÷ 4)</i> • <i>Understand that finding a fraction of an amount relates to division</i> • Recognise that tenths arise from dividing objects into 10 equal parts and in dividing one-digit numbers or quantities by 10 • Recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators • Recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators • Recognise and show, using diagrams, equivalent fractions with small denominators • Add and subtract fractions with the same denominator $\frac{5}{7} + \frac{1}{7} = \frac{6}{7}$ <i>within one whole [for example, $\frac{5}{7} + \frac{1}{7} = \frac{6}{7}$]</i> • Compare and order unit fractions, and fractions with the same denominators (including on a number line) 	<ul style="list-style-type: none"> • Draw 2-D shapes and make 3-D shapes using modelling 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 	<ul style="list-style-type: none"> • Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml) • <i>Continue to estimate and measure temperature to the nearest degree (°C) using thermometers</i> • <i>Understand perimeter is a measure of distance around the boundary of a shape</i> • Measure the perimeter of simple 2-D shapes • 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/read time with increasing accuracy to the nearest minute • Record/compare time in terms of seconds, minutes, hours; use vocabulary such as o'clock, a.m./p.m., morning, afternoon, noon, 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] • <i>Continue to recognise and use the symbols for pounds (£) and pence (p) and understand that the decimal point separates pounds/pence</i> $\frac{1}{10}$ • <i>Recognise that ten 10p coins equal £1 and that each coin is $\frac{1}{10}$ of £1</i> • Add and subtract amounts of money to give change, using both £ and p in
	Geometry – Position and Direction	
	<ul style="list-style-type: none"> • <i>Describe positions on a square grid labelled with letters and numbers</i> 	
	Statistics	
	<ul style="list-style-type: none"> • <i>Use sorting diagrams to compare and sort objects, numbers and common 2-D and 3-D shapes and everyday objects</i> • 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 	

<ul style="list-style-type: none">Count on and back in steps of $\frac{1}{2}$, $\frac{1}{4}$ and $\frac{1}{3}$Solve problems that involve all of the above		<p>practical contexts</p> <ul style="list-style-type: none">Solve problems involving money and measures and simple problems involving passage of time
--	--	---