

Number – number and place value	Number – addition and subtraction	Number – multiplication and division	Number – fractions	Measurement	Geometry – shapes	properties of	Statistics
4	5	5	8	4	3		3
<p><b>Number size:</b> up to 1000 multiples of 4,8,50,100 10 or 100 more less than <b>representations:</b>100÷20÷4 =; 124 = 100 + _ ÷ 4; Part whole models; bar model; numberline; Base Ten; place value counters</p>	<p><b>Number size:</b> Use up to 3 digit numbers Mentally: use numbers with 2 digits <b>Formal methods:</b> column addition, column subtraction,. <b>Other methods:</b> numberline subtraction, bar model for problem solving (Base Ten as concrete/pictorial)</p>	<p><b>Number size:</b> 2 digits by 1 digit Mentally: use doubling for x 2 x 4 x 8 <b>Formal methods:</b> <b>Other methods:</b> Division: bar model and numberline Multiplication : empty array (grid) Bar model for problem solving ( Base Ten as concrete/ pictorial)</p>	<p><b>Fractions size:</b> use denominators up to 10 emphasise link to division (<math>1/2 = 1 \div 2</math>) <b>Representations:</b> bar model , Part-whole mode, numberline, set of objects, division.</p>	<p><b>conversions:</b> length: m-cm -mm; mass: kg-g capacity: l-ml money: p÷2 (separately) time: seconds-hours- days- weeks-years; Roman numeral to 12 <b>representations:</b> numberline, scales (horizontal/vertical and circular) <b>Perimeter</b> - measure simple shape (cm) <b>Time:</b> tell and write in 12 or 24 hour</p>	<p><b>2d:</b> polygons: triangles, square, rectangle, oblong, pentagon, hexagon, heptagon,octagon, <b>3d:</b> polyhedra: cube, cuboid, tetrahedron, square based pyramid, prisms, sphere, semi-sphere, cylinder,cone <b>Accuracy to draw:</b> to nearest cm</p>		<p><b>representations:</b> bar chart, tally chart, table, pictogram, venn, Carroll use 2,5,10 units per picture/ square for bar charts</p>
<p>even, odd, greater/less than, Numbers to one thousand, partition, place value, recombine, more/less, equa, digits, compare, numeral, figure</p>	<p>partition, value, add, more, plus, make, sum, total, altogether, subtract, minus, take away, difference, fewer, less, double, half, Column addition and subtraction, exchange</p>	<p>product, times, multiple , multiply, repeated addition, lots, groups of, share, divide, repeated subtraction, equal, left over, double half</p>	<p>Numerator, denominator, Unit fraction, non-unit fraction, Compare, order, whole, half, quarters, eighths , equivalent, Tenths, third</p>	<p>capacity, am pm morning afternoon, midnight, noon, perimeter, length, E/p, half past, quarter past, seconds,o'clock seasons, minutes, hours, day, months, estimate, scale, weight, heavier lighter, /to, m/km, g/ kg, ml/l Leap year 12 hour/24hour, Roman numerals I to XII</p>	<p>angle, edge, corner, side, face, vertex, vertices, flat, curved, straight, round, , clockwise, anti-clockwise, straight line, full turn, degrees, right angle, acute, obtuse,90°, 180°, 360° , horizontal, vertical, perpendicular, parallel, Greater/less than, , orientation, rotate, group, sort</p>		<p>tally, vote, graph, title, label, common, popular, pictogram, represent, sort, chart, bar chart, frequency table, Carroll diagram, Venn diagram, Axis, Diagram</p>
<p>count from 0 in multiples of 4, 8, 50 and 100; find 10 or 100 more or less than a given number</p>	<p>□ add and subtract numbers mentally, including: a 3-digit number using ones, tens, hundreds</p>	<p>recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables</p>	<p>recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators</p>	<p>measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml)</p>	<p>recognise angles as a property of shape or a description of a turn</p>		<p>interpret and present data using bar charts, pictograms and tables</p>
<p>recognise the place value of each digit in a three-digit number (hundreds, tens, ones)</p>	<p>add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction</p>	<p>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</p>	<p>recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators</p>	<p>tell and write the time from an analogue clock, including using Roman numerals from 1 to XII, and 12-hour and 24-hour clocks</p>	<p>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</p>		<p>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.</p>
<p>identify, represent and estimate numbers using different representations</p>	<p>estimate the answer to a calculation and use inverse operations to check answers</p>	<p>solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which n objects are connected to m objects.</p>	<p>add and subtract fractions with the same denominator within one whole</p>	<p>add and subtract amounts of money to give change, using both £ and p in practical contexts</p>	<p>identify horizontal and vertical lines and pairs of perpendicular and parallel lines.</p>		
<p>read and write numbers up to 1000 in numerals and in words</p>	<p>solve problems, including missing number problems,</p>		<p>recognise and show, using diagrams, equivalent fractions with small denominators</p>	<p>measure the perimeter of simple 2-D shapes</p>	<p>draw 2-D shapes and make 3-D shapes using modelling materials; recognise 3-D shapes in different orientations and describe them</p>		
<p>compare and order numbers up to 1000</p>			<p>compare and order unit fractions, and fractions with the same denominators</p>	<p>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</p>			
<p>solve number problems and practical problems involving these ideas.</p>			<p>count up and down in tenths; recognise that tenths arise from dividing an object into 10 equal parts and in dividing one-digit numbers or quantities by 10</p>	<p>Know the number of seconds in a minute and the number of days in each month, year and leap year</p>			
			<p>solve problems that involve all of the above.</p>	<p>compare durations of event [for eg to calculate the time taken by particular events or tasks]</p>			

