| Strand | Yr2 | Yr3 |
| :---: | :---: | :---: |
| NUMBER: Number and place value |  |  |
| Counting | count in steps of 2,3 , and 5 from 0 , and in tens from any number, forward and backward | count from 0 in multiples of 4, 8, 50 and 100; find 10 or 100 more or less than a given number |
| Read and write numbers | read and write numbers to at least 100 in numerals and in words | read and write numbers up to a 1000 in numerals and in words |
| Comparing and ordering numbers | compare and order numbers from 0 up to 100 ; use $<$, $>$ and = signs | compare and order numbers up to 1000 |
| Place value (see also fractions, decimals \& percentage) | recognise the place value of each digit in a two-digit number (tens, ones) | recognise the place value of each digit in a three-digit number (hundreds, tens, ones) |
| Identify, represent, estimate and round | identify, represent and estimate numbers using different representations, including the number line | identify, represent and estimate numbers using different representations |
| Solve problems | use place value and number facts to solve problems | solve number problems and practical problems involving these ideas |
| NUMBER: Addition, Subtraction, Multiplication and Division |  |  |
| Addition, subtraction, multiplication and division | add and subtract numbers using concrete objects, pictorial representations, and mentally, including: <br> -a two-digit number and ones <br> -a two-digit number and tens <br> -two two-digit numbers <br> -adding three one-digit numbers <br> show that addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot <br> calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication $(\times)$, division $(\div)$ and equals $(=)$ signs <br> show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot | add and subtract numbers mentally, including: <br> a three-digit number and ones; <br> a three-digit number and tens; <br> a three-digit number and hundreds <br> add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction <br> 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 |
| Derive and recall $+-x \div$ | recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100 <br> recall and use multiplication and division facts for the 2,5 and 10 multiplication tables, including recognising odd and even numbers | recall and use multiplication and division facts for the 3,4 and 8 multiplication tables |
| Solving problems | solve problems with addition and subtraction: <br> --using concrete objects and pictorial representations, including those involving numbers, quantities and measures <br> --applying their increasing knowledge of mental and written methods <br> solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts | solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction <br> 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 mobjects |
| Checking | recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems | estimate the answer to a calculation and use inverse operations to check answers |
| NUMBER: Fractions (including decimals and percentages) |  |  |
| Recognise and find fractions | recognise, find, name and write fractions $1 / 3,1 / 4,2 / 4$ and $3 / 4$ of a length, shape, set of objects or quantity <br> write simple fractions e.g. $1 / 2$ of $6=3$ | recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators <br> recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators |
| Count, compare and order <br> Place value and rounding |  | 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 <br> compare and order unit fractions, and fractions with the same denominator |
| Equivalence | recognise the equivalence of $2 / 4$ and $1 / 2$ | recognise and show, using diagrams, equivalent fractions with small denominators |
| Calculating |  | add and subtract fractions with the same denominator within one whole (e.g. $5 / 7+1 / 7=6 / 7$ ) |
| Solve problems |  | solve problems that involve all of the above |


| Strand | Yr2 | Yr3 |
| :---: | :---: | :---: |
| MEASUREMENT |  |  |
| Estimate, measure, weigh, compare and convert units | choose and use appropriate standard units to estimate and measure length/height in any direction ( $\mathrm{m} / \mathrm{cm}$ ); mass ( $\mathrm{kg} / \mathrm{g}$ ); temperature $\left({ }^{\circ} \mathrm{C}\right)$; capacity (litres $/ \mathrm{ml}$ ) to the nearest appropriate unit, using rulers, scales, thermometers and measuring vessels <br> compare and order lengths, mass, volume/capacity and record the results using >, < and = | measure, compare, add and subtract: lengths ( $\mathrm{m} / \mathrm{cm} / \mathrm{mm}$ ); mass (kg/g); volume/capacity (l/ml) |
| Perimeter, area, volume and capacity |  | measure the perimeter of simple 2-D shapes |
| Money | recognise and use symbols for pounds ( $£$ ) and pence (p); combine amounts to make a particular value <br> find different combinations of coins that equal the same amounts of money <br> solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change | add and subtract amounts of money to give change, using both $£$ and $p$ in practical contexts |
| Time | compare and sequence intervals of time <br> tell and write the time to five minutes, including quarter past/to the hour and draw the hands on a clock face to show these times <br> know the number of minutes in an hour and the number of hours in a day | tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour clocks <br> 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 <br> know the number of seconds in a minute and the number of days in each month, year and leap year <br> compare durations of events (for example to calculate the time taken by particular events or tasks) |
| GEOMETRY: Properties of shapes; position and direction |  |  |
| Properties of shapes | identify and describe the properties of 2-D shapes, including the number of sides and symmetry in a vertical line <br> identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces <br> identify 2-D shapes on the surface of 3-D shapes, ( for example a circle on a cylinder and a triangle on a pyramid) <br> compare and sort common 2-D and 3-D shapes and everyday objects | 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 |
| Position, direction, motion | order and arrange combinations of mathematical objects in patterns use mathematical vocabulary to describe position, direction and movement, including movement in a straight line and distinguishing between rotation as a turn and in terms of right angles for quarter, half and three-quarter turns (clockwise and anti-clockwise) |  |
| STATISTICS |  |  |
|  | interpret and construct simple pictograms, tally charts, block diagrams and simple tables <br> ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity <br> ask \& answer questions about totalling \& comparing categorical data | interpret and present data using bar charts, pictograms and tables solve one-step and two-step questions (e.g. 'How many more?' and 'How many fewer?' ) using information presented in scaled bar charts and pictograms and tables |


| Strand | Emerging | Meeting Expectations | Exceeding Expectations |
| ---: | :---: | :---: | :---: |
| NUMBER: Number and place <br> value |  |  |  |
| NUMBER: Addition, Subtraction, <br> Multiplication \& Division |  |  |  |
| NUMBER: Fractions (including <br> decimals and percentages) |  |  |  |
| MEASUREMENT |  |  |  |
| GEOMETRY: Properties of <br> shapes; position and direction |  |  |  |
| STATISTICS |  |  |  |
| Overall | Y2 emerging; 14 points | Y2 expecting; 15 points | Y2 exceeding; 16 points |
|  | Y3 emerging; 17 points | Y3 expecting; 18 points | Y3 exceeding; 19 points |

