



## Croftlands Junior School Medium Term Maths planning

Year 3	Autumn 1
Reading, writing and ordering two- and three-digit numbers	<ul style="list-style-type: none"> <li>● To recognise the place value of each digit in a three-digit number (hundreds, tens, ones).</li> <li>● To compare and order numbers up to 1000.</li> <li>● To read and write numbers up to 1000 in numerals and in words.</li> </ul>
Counting and estimating	<ul style="list-style-type: none"> <li>● To count from 0 in multiples of 4, 8, 50 and 100; finding 10 or 100 more or less than a given number.</li> <li>● To identify, represent and estimate numbers using different representations.</li> </ul>
Number facts to 20 and to 100 Addition and Subtraction of 1 and 2-digit numbers	<ul style="list-style-type: none"> <li>● To add and subtract numbers mentally, including:               <ul style="list-style-type: none"> <li>● a three-digit number and ones</li> <li>● a three-digit number and tens</li> <li>● a three-digit number and hundreds.</li> </ul> </li> <li>● To solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction.</li> </ul>
Multiplication and division facts	<ul style="list-style-type: none"> <li>● To recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables.</li> <li>● To 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.</li> <li>● To solve problems, including missing number problems, involving multiplication and division, including integer scaling problems and correspondence problems in which <math>n</math> objects are connected to <math>m</math> objects.</li> </ul>
Measuring using mm, cm and metres	<ul style="list-style-type: none"> <li>● To measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml).</li> <li>● To measure the perimeter of simple 2D shapes.</li> </ul>
Recognising, describing and making 2D and 3D shapes	<ul style="list-style-type: none"> <li>● To draw 2D shapes and make 3D shapes using modelling materials; recognise 3D shapes in different orientations and describe them with increasing accuracy.</li> <li>● To identify horizontal, vertical, perpendicular and parallel lines in relation to other lines.</li> </ul>



## Croftlands Junior School Medium Term Maths planning

Year 3	Autumn 2
Counting and estimating	<ul style="list-style-type: none"> <li>● To add and subtract numbers mentally, including:               <ul style="list-style-type: none"> <li>● a three-digit number and ones</li> <li>● a three-digit number and tens</li> <li>● a three-digit number and hundreds.</li> </ul> </li> <li>● To solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction.</li> </ul>
Addition and subtraction of two- and three-digit numbers, using a number line and columns	<ul style="list-style-type: none"> <li>● To add and subtract numbers with up to three digits, using the efficient written methods of columnar addition and subtraction.</li> <li>● To estimate the answer to a calculation and use inverse operations to check answers.</li> <li>● To solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction.</li> </ul>
Multiplication and division: doubling, halving and $TU \times U$	<p>To recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables.</p> <ul style="list-style-type: none"> <li>● To 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.</li> <li>● To solve problems, including missing number problems, involving multiplication and division, including integer scaling problems and correspondence problems in which <math>n</math> objects are connected to <math>m</math> objects.</li> </ul>
Fractions: representing, comparing and ordering unit fractions of shapes and numbers	<ul style="list-style-type: none"> <li>● To recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators.</li> <li>● To recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators.</li> <li>● To compare and order unit fractions, and fractions with the same denominators.</li> <li>● To solve problems that involve all of the above.</li> </ul>
Read and write time to 5 minute intervals	<ul style="list-style-type: none"> <li>● To tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour clocks.</li> <li>● To estimate and read time with increasing accuracy to the nearest minute; record and compare time in terms of seconds, minutes, hours and o'clock; use vocabulary such as am/pm, morning, afternoon, noon and midnight.</li> <li>● To know the number of seconds in a minute and the number of days in each month, year and leap year.</li> <li>● To compare durations of events, for example to calculate the time taken by particular events or tasks.</li> </ul>
Read, present and interpret pictograms and tables	<ul style="list-style-type: none"> <li>● To interpret and present data using bar charts, pictograms and tables</li> <li>● To solve one-step and two-step questions such as 'How many more?' and 'How many fewer?' using information presented in scaled bar charts and pictograms and tables.</li> </ul>



## Croftlands Junior School Medium Term Maths planning

Year 3	Spring 1
Number, place value and rounding	<ul style="list-style-type: none"><li>● To count from 0 in multiples of 4, 8, 50 and 100; finding 10 or 100 more or less than a given number.</li><li>● To recognise the place value of each digit in a three-digit number (hundreds, tens, ones).</li><li>● To compare and order numbers up to 1000.</li><li>● To identify, represent and estimate numbers using different representations.</li><li>● To read and write numbers up to 1000 in numerals and in words.</li><li>● To solve number problems and practical problems involving these ideas.</li></ul>
Use partitioning to add and subtract two-digit numbers	<ul style="list-style-type: none"><li>● To add and subtract numbers mentally, including:<ul style="list-style-type: none"><li>● a three-digit number and ones</li><li>● a three-digit number and tens</li><li>● a three-digit number and hundreds.</li></ul></li><li>● To estimate the answer to a calculation and use inverse operations to check answers.</li><li>● To solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction.</li></ul>
Multiplication and division: multiplying one-digit numbers by multiples of 10	<ul style="list-style-type: none"><li>● To recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables.</li><li>● To 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.</li><li>● To solve problems, including missing number problems, involving multiplication and division, including integer scaling problems and correspondence problems in which <math>n</math> objects are connected to <math>m</math> objects.</li></ul>
Multiplication and division: practical and informal written methods	<ul style="list-style-type: none"><li>● To recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables.</li><li>● To 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.</li><li>● To solve problems, including missing number problems, involving multiplication and division, including integer scaling problems and correspondence problems in which <math>n</math> objects are connected to <math>m</math> objects.</li></ul>
Measures: adding and subtracting money	<ul style="list-style-type: none"><li>● To add and subtract amounts of money to give change, using both £ and p in practical contexts.</li></ul>
Recognising and drawing right angles in 2D shapes	<ul style="list-style-type: none"><li>● To recognise angles as a property of shape and associate angles with turning.</li><li>● To 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.</li></ul>



## Croftlands Junior School Medium Term Maths planning

Year 3	Spring 2
Addition and subtraction of two-digit numbers using columns	<ul style="list-style-type: none"> <li>● To add and subtract numbers with up to three digits, using the efficient written methods of columnar addition and subtraction.</li> <li>● To estimate the answer to a calculation and use inverse operations to check answers.</li> <li>● To solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction.</li> </ul>
Multiplication and division: multiplying by multiples of 10, and dividing with remainders	<ul style="list-style-type: none"> <li>● To recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables.</li> <li>● To 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.</li> <li>● To solve problems, including missing number problems, involving multiplication and division, including integer scaling problems and correspondence problems in which <math>n</math> objects are connected to <math>m</math> objects.</li> </ul>
Multiplication and division: multiplying and dividing larger numbers	<ul style="list-style-type: none"> <li>● To recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables.</li> <li>● To 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.</li> <li>● To solve problems, including missing number problems, involving multiplication and division, including integer scaling problems and correspondence problems in which <math>n</math> objects are connected to <math>m</math> objects.</li> </ul>
Measuring using grams and kilograms	<ul style="list-style-type: none"> <li>● To measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml).</li> </ul>
Fractions: representing, comparing and ordering unit and non-unit fractions of shapes and numbers	<ul style="list-style-type: none"> <li>● To 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.</li> <li>● To recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators.</li> <li>● To recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators.</li> <li>● To recognise and show, using diagrams, equivalent fractions with small denominators.</li> <li>● To compare and order unit fractions, and fractions with the same denominators.</li> <li>● To solve problems that involve all of the above.</li> </ul>
Read and interpret bar charts, using scales	<ul style="list-style-type: none"> <li>● To interpret and present data using bar charts, pictograms and tables.</li> <li>● To solve one-step and two-step questions such as 'How many more?' and 'How many fewer?' using information presented in scaled bar charts and pictograms and tables.</li> </ul>



## Croftlands Junior School Medium Term Maths planning

Year 3	Summer 1
Read, write and order and round two- and three-digit numbers	<ul style="list-style-type: none"> <li>● To count from 0 in multiples of 4, 8, 50 and 100; finding 10 or 100 more or less than a given number.</li> <li>● To recognise the place value of each digit in a three-digit number (hundreds, tens, ones).</li> <li>● To compare and order numbers up to 1000.</li> <li>● To identify, represent and estimate numbers using different representations.</li> <li>● To read and write numbers up to 1000 in numerals and in words.</li> <li>● To solve number problems and practical problems involving these ideas.</li> </ul>
Multiplication and division problems	<ul style="list-style-type: none"> <li>● To recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables.</li> <li>● To 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.</li> <li>● To solve problems, including missing number problems, involving multiplication and division, including integer scaling problems and correspondence problems in which <math>n</math> objects are connected to <math>m</math> objects.</li> </ul>
Addition and subtraction of three-digit numbers and 1s, 10s and 100s	<ul style="list-style-type: none"> <li>● To add and subtract numbers mentally, including:               <ul style="list-style-type: none"> <li>● a three-digit number and ones</li> <li>● a three-digit number and tens</li> <li>● a three-digit number and hundreds.</li> </ul> </li> <li>● To estimate the answer to a calculation and use inverse operations to check answers.</li> <li>● To solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction.</li> </ul>
Addition and subtraction of two- and three-digit numbers using columns	<ul style="list-style-type: none"> <li>● To add and subtract numbers with up to three digits, using the efficient written methods of columnar addition and subtraction.</li> <li>● To estimate the answer to a calculation and use inverse operations to check answers.</li> <li>● To solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction.</li> </ul>
Shape: identifying horizontal, vertical, and curved lines	<ul style="list-style-type: none"> <li>● To draw 2D shapes and make 3D shapes using modelling materials; recognise 3D shapes in different orientations and describe them with increasing accuracy.</li> <li>● To recognise angles as a property of shape and associate angles with turning.</li> <li>● To 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.</li> <li>● To identify horizontal, vertical, perpendicular and parallel lines in relation to other lines.</li> </ul>
Measuring using millilitres and litres	<ul style="list-style-type: none"> <li>● To measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml).</li> </ul>



## Croftlands Junior School Medium Term Maths planning

Year 3	Summer 2
Addition and subtraction of two- and three-digit numbers using and columns	<ul style="list-style-type: none"> <li>● To add and subtract numbers with up to three digits, using the efficient written methods of columnar addition and subtraction.</li> <li>● To estimate the answer to a calculation and use inverse operations to check answers.</li> <li>● To solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction.</li> </ul>
Multiplication and division problems: written methods	<ul style="list-style-type: none"> <li>● To recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables.</li> <li>● To 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.</li> <li>● To solve problems, including missing number problems, involving multiplication and division, including integer scaling problems and correspondence problems in which <math>n</math> objects are connected to <math>m</math> objects.</li> </ul>
Short multiplication and division	<p>To recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables.</p> <ul style="list-style-type: none"> <li>● To 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.</li> <li>● To solve problems, including missing number problems, involving multiplication and division, including integer scaling problems and correspondence problems in which <math>n</math> objects are connected to <math>m</math> objects.</li> </ul>
Fractions: equivalence, addition and subtraction within 1, finding tenths	<ul style="list-style-type: none"> <li>● To 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.</li> <li>● To recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators.</li> <li>● To recognise and show, using diagrams, equivalent fractions with small denominators.</li> <li>● To add and subtract fractions with the same denominator within one whole (<math>5/7 + 1/7 = 6/7</math>).</li> <li>● To solve problems that involve all of the above.</li> </ul>
Read and write time using 12 and 24 hour	<ul style="list-style-type: none"> <li>● To tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour clocks.</li> <li>● To estimate and read time with increasing accuracy to the nearest minute; record and compare time in terms of seconds, minutes, hours and o'clock; use vocabulary such as am/pm, morning, afternoon, noon and midnight.</li> <li>● To know the number of seconds in a minute and the number of days in each month, year and leap year.</li> <li>● To compare durations of events, for example to calculate the time taken by particular events or tasks.</li> </ul>
Construct and interpret bar charts using scales	<ul style="list-style-type: none"> <li>● To interpret and present data using bar charts, pictograms and tables.</li> <li>● To solve one-step and two-step questions such as 'How many more?' and 'How many fewer?' using information presented in scaled bar charts and pictograms and tables.</li> </ul>