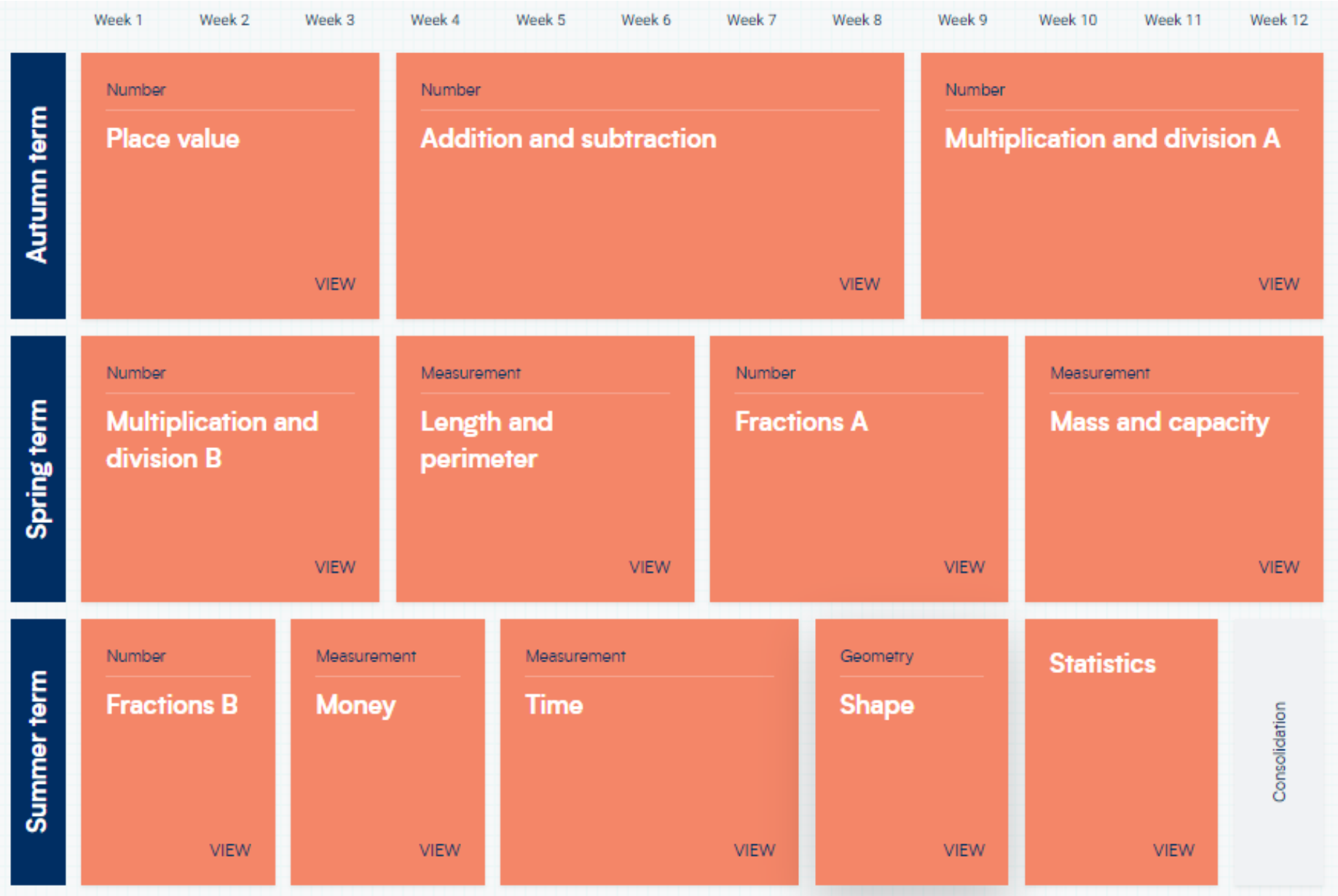
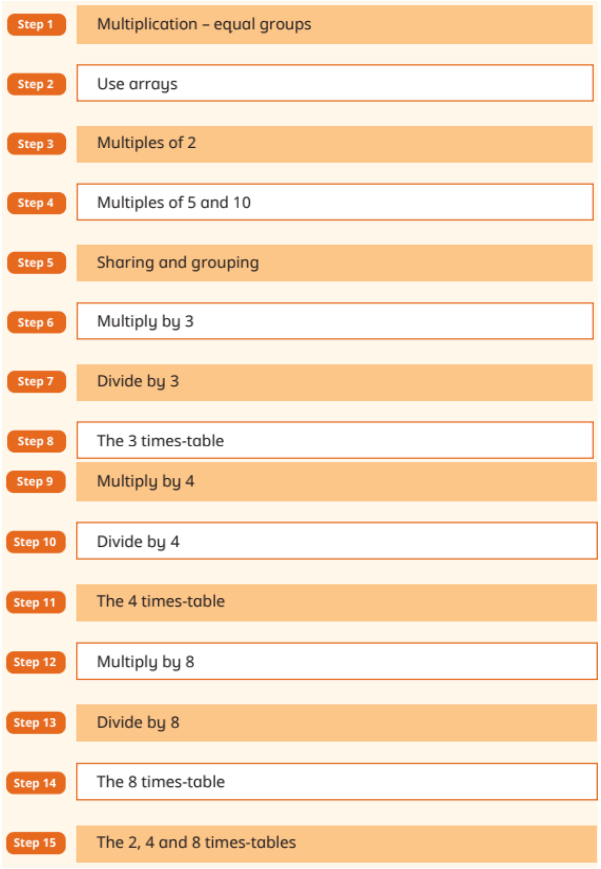
YEAR 3 - Maths Curriculum



AUTUMN TERM

National Curriculum	Small Steps
Number and Place Value (3 Weeks) Identify, represent and estimate numbers using different representations. Recognise the place value of each digit in a three-digit number (hundreds, tens, ones). 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 up to 1000 in numerals and in words. Compare and order numbers up to 1000. Solve number problems and practical problems involving these ideas.	Step 1 Represent numbers to 100 Step 2 Partition numbers to 100 Step 3 Number line to 100 Step 4 Hundreds Step 5 Represent numbers to 1,000 Step 6 Partition numbers to 1,000 Step 7 Flexible partitioning of numbers to 1,000 Step 8 Hundreds, tens and ones Step 9 Find 1, 10 or 100 more or less Step 10 Number line to 1,000 Step 11 Estimate on a number line to 1,000 Step 12 Compare numbers to 1,000 Step 13 Order numbers to 1,000 Step 14 Count in 50s
Number + & - (5 Weeks) Add and subtract numbers mentally, including: a three-digit number and ones 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 column addition and subtraction + estimating. Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction. Estimate the answer to a calculation and use inverse operations to check answers.	Step 1 Apply number bonds within 10 Step 2 Add and subtract 1s Step 3 Add and subtract 10s Step 4 Add and subtract 100s Step 5 Spot the pattern Step 6 Add 1s across a 10 Step 7 Add 10s across a 100 Step 8 Subtract 1s across a10 Step 9 Subtract 10s across a 100 Step 10 Make connections Step 11 Add two numbers (no exchange) Step 12 Subtract two numbers (no exchange) Step 13 Add two numbers (across a 10) Step 14 Add two numbers (across a 100) Step 15 Subtract two numbers (across a 10) Step 16 Subtract two numbers (across a 100) Step 17 Add 2-digit and 3-digit numbers Step 18 Subtract a 2-digit number from a 3-digit number Step 19 Complements to 100 Step 20 Estimate answers Step 21 Inverse operations Step 22 Make decisions

AUTUMN TERM

National Curriculum	Small Steps
Number x & / (4 Weeks) Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for 2-digit number x 1-digit numbers, using mental and progressing to formal written methods. Recall and use x and / facts for the 3, 4 and 8x tables.	

Real Life Maths Week—With a Unit of your choosing

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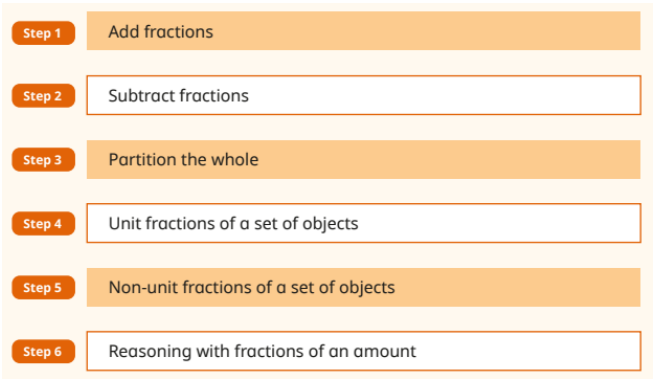
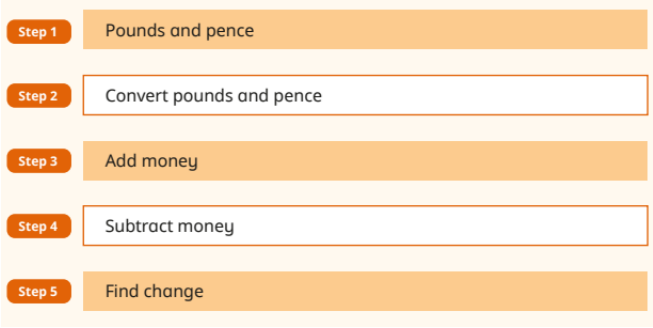
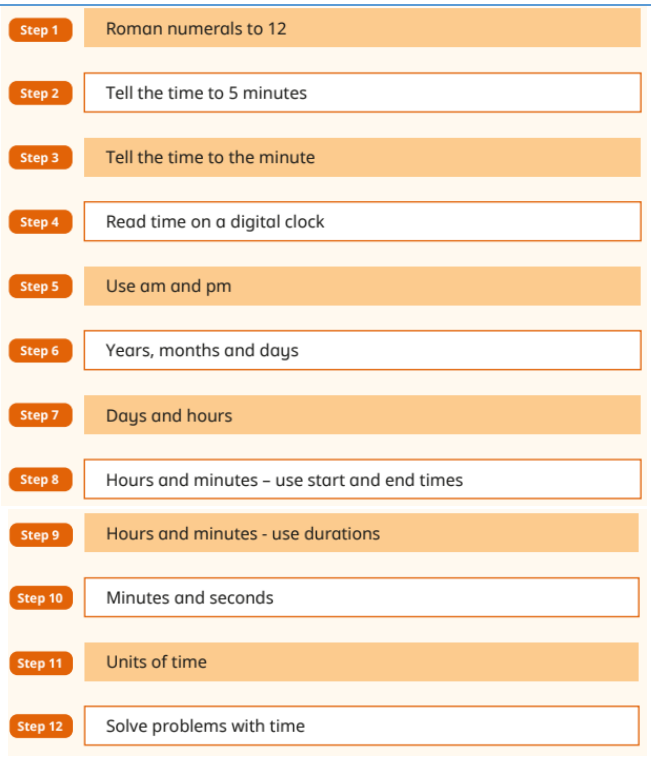
SPRING TERM

National Curriculum	Small Steps
Number x & / (4 Week Block) Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for 2-digit number x 1-digit numbers, using mental and progressing to formal written methods. Solve problems including missing number problems, involving x and /, including positive integer scaling problems and correspondence problems in which n objects are connected to m objects.	Step 1 Multiples of 10 Step 2 Related calculations Step 3 Reasoning about multiplication Step 4 Multiply a 2-digit number by a 1-digit number – no exchange Step 5 Multiply a 2-digit number by a 1-digit number – with exchange Step 6 Link multiplication and division Step 7 Divide a 2-digit number by a 1-digit number – no exchange Step 8 Divide a 2-digit number by a 1-digit number – flexible partitioning Step 9 Divide a 2-digit number by a 1-digit number – with remainders Step 10 Scaling Step 11 How many ways?
Length and Perimeter (3 Weeks) Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml). Measure the perimeter of simple 2-D shapes.	Step 1 Measure in metres and centimetres Step 2 Measure in millimetres Step 3 Measure in centimetres and millimetres Step 4 Metres, centimetres and millimetres Step 5 Equivalent lengths (metres and centimetres) Step 6 Equivalent lengths (centimetres and millimetres) Step 7 Compare lengths Step 8 Add lengths Step 9 Subtract lengths Step 10 What is perimeter? Step 11 Measure perimeter Step 12 Calculate perimeter

SPRING TERM—Continued

National Curriculum	Small Steps
Fractions Recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators. Compare and order unit fractions, and fractions with the same denominators. 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. Recognise and use fractions as numbers; unit fractions and non -unit fractions with small denominators. Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml). Recognise and show, using diagrams, equivalent fractions with small denominators.	Step 1 Understand the denominators of unit fractions Step 2 Compare and order unit fractions Step 3 Understand the numerators of non-unit fractions Step 4 Understand the whole Step 5 Compare and order non-unit fractions Step 6 Fractions and scales Step 7 Fractions on a number line Step 8 Count in fractions on a number line Step 9 Equivalent fractions on a number line Step 10 Equivalent fractions as bar models
Measures (Mass and Capacity—3 Weeks) Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml).	Step 1 Use scales Step 2 Measure mass in grams Step 3 Measure mass in kilograms and grams Step 4 Equivalent masses (kilograms and grams) Step 5 Compare mass Step 6 Add and subtract mass Step 7 Measure capacity and volume in millilitres Step 8 Measure capacity and volume in litres and millilitres Step 9 Equivalent capacities and volumes (litres and millilitres) Step 10 Compare capacity and volume Step 11 Add and subtract capacity and volume

SUMMER TERM

National Curriculum	Small Steps
Fractions (2 Weeks) Recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators. Add and subtract fractions with the same denominator within one whole [for example, + =]. Solve problems using all of the above.	
Measures (Money—2 Weeks) Add and subtract amounts of money to give change, using both £ and p in practical contexts.	
Measures (Time) 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 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. 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].	

SUMMER TERM

National Curriculum	Small Steps
Geometry (2 Weeks) 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. Recognise angles as a property of shape or a description of a turn. Draw 2-D shapes and make 3-D shapes using modelling materials; recognise 3-D shapes in different orientations and describe them. Identify horizontal and vertical lines and pairs of perpendicular and parallel lines. Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml).	Step 1 Turns and angles Step 2 Right angles Step 3 Compare angles Step 4 Measure and draw accurately Step 5 Horizontal and vertical Step 6 Parallel and perpendicular Step 7 Recognise and describe 2-D shapes Step 8 Draw polygons Step 9 Recognise and describe 3-D shapes Step 10 Make 3-D shapes
Statistics (2 Weeks) 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.	Step 1 Interpret pictograms Step 2 Draw pictograms Step 3 Interpret bar charts Step 4 Draw bar charts Step 5 Collect and represent data Step 6 Two-way tables

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