MathsMap RouteMap Year 3

Strand / Tier	Number and Place Value, approximation and estimation/rounding	Addition, Subtraction, Multiplication & Division (Calculation)	Fractions, Decimals and Percentages	Measurement	Geometry – Properties of Shape & Position and Direction	Statistics
20 End of Year 3 Exp's	• **Recognise the place value of each digit in a 3-digit number** • **Solve number problems and practical problems involving each of the below:** ➢ **Compare and order numbers up to 1000** ➢ **Identify, represent and estimate numbers using different representations, e.g. using Numicon, counting sticks, cubes, 100 squares etc.**	• **Write and calculate mathematical statements for multiplication and division using the multiplication tables the children know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods** • Solve problems, including missing number problems, involving multiplication and division, including integer scaling problems	• Compare and order unit fractions and fractions with the same denominators • Add and subtract fractions with the same denominator within one whole (e.g. $^5/_7 + ^1/_7 = ^6/_7$) using practical resources and other common denominators • Solve problems that involve both of the above	• Measure the perimeter of simple 2D shapes • **Add and subtract amounts of money to give change, using both £ and p in practical contexts** • **Add and subtract lengths (m/cm/m)** • **Add and subtract mass (kg/g)** • **Add and subtract volume/capacity (l/ml)**	• Recognise that angles are a property of a 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 or less than a right angle**	• Solve one-step and two-step questions (e.g. 'How many more?' and 'How many fewer?' using information presented in scaled bar charts, pictograms and tables
19	• Read and write numbers to 1000 in numerals and in words • Find 10 or 100 more or less than a given number	• Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction • **Recall and use multiplication and division facts for the 3 times tables** • **Recall and use multiplication and division facts for the 4 times tables** • **Recall and use multiplication and division facts for the 8 times tables**	• 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. (halves, quarters, thirds)**	• **Tell and write the time from an analogue clock; 12-hour clocks** • **Tell and write the time from an analogue clock; 24-hour clocks** • Tell and write the time from an analogue clock, including using Roman numerals from I to XII • 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 minute and the number of days in each month, year and leap year • Compare durations of events, e.g. to calculate the time taken by particular events or tasks	• Draw 2D shapes • Make 3D shapes using modelling materials • Recognise 3D shapes in different orientations and describe them	• **Interpret and present data using bar charts, pictograms and tables**
18	• **Count from 0 in multiples of 50** • **Count from 0 in multiples of 100** • **Count from 0 in multiples of 4** • **Count from 0 in multiples of 8**	• **Add and subtract numbers mentally, including:** ➢ **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	• **Count up and down in tenths; recognise that tenths arise from dividing an object into 10 equal parts** • **Recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators**	• **Compare lengths (m/cm/mm)** • **Compare mass (kg/g)** • **Compare volume/capacity (l/ml)** • **Measure lengths (m/cm/mm)** • **Measure mass (kg/g)** • **Measure volume/capacity (l/ml)**	• Identify horizontal and vertical lines, and pairs of perpendicular and parallel lines	