Year 3 Learning Objectives in Mathematics

Year 3

Autumn Term	Spring Term	Summer Term
Number and Place Value *Read and write numbers up to 1000 in numerals and in words		
Number and Place Value *Count from 0 in multiples of 50 and 100 *Find 10 or 100 more or less than a given number *Recognise the place value of each digit in a three-digit number (hundreds, tens, ones) *Compare and order numbers up to 1000 *Identify, represent and estimate numbers using different representations *Read and write numbers up to 1000 in numerals and in words *Solve number problems and practical problems involving these ideas. **Number – Addition and Subtraction** *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 *Estimate the answer to a calculation and use inverse operations to check answers	**Number – Multiplication and Division** *Recall and use multiplication **and** division facts for the 3, 4 and 8 multiplication tables *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 *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. **Measurement – Length and Perimeter** Measure, compare, add and subtract: lengths (m/cm/mm) *Measure the perimeter of simple 2-D shapes **Number - Fractions** *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, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators	**Measurement – Money** *Add and subtract amounts of money to give change, using both £ and p in practical contexts **Geometry – Properties of Shapes** *Draw 2-D shapes *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. *Make 3-D shapes using modelling materials; recognise 3-D shapes in different orientations and describe them **Measurement – Mass and Capacity** *Measure, compare, add and subtract: mass (kg/g); volume/capacity (l/ml)

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*Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction. **Number and Place Value** *Count from 0 in multiples of 4 and 8 **Number – Multiplication** *Recall and use multiplication facts for the 3, 4 and 8 multiplication 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 *Add and subtract fractions with the same denominator within one whole [for example, $\frac{5}{7} + \frac{1}{7} = \frac{6}{7}$] *Compare and order unit fractions, and fractions with the same denominators *Solve problems that involve all of the above	**Statistics** *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. **Measurement – 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*].