

	Autumn Term	Spring Term	Summer Term
Year 3	Count from 0 in multiples of 4,8, 50 and 100. Find 10 or 100 more or less than a given number. Add and subtract numbers mentally, including: 3-digit numbers & ones, 3-digit numbers & tens, 3-digit numbers & hundreds. Add and subtract numbers with up to 3 digits, using formal written methods of columnar addition and subtraction. Recall and use the multiplication and division facts for the 3, 4 and 8 tables. Write and calculate mathematical statements for multiplication using known multiplication tables, including 2-digit x 1-digit, using mental and progressing to formal written methods. Write and calculate mathematical statements for division using known multiplication tables, including 2-digit x 1- digit, using mental and progressing to formal written methods. Measure the perimeter of simple 2D shapes. Estimate and read time with increasing accuracy to the nearest minute; Tell and write the time from an analogue clock, including using Roman numerals from I to XII	Compare and order numbers up to 1000. Add and subtract numbers with up to 3 digits, using formal written methods of columnar addition and subtraction. Write and calculate mathematical statements for multiplication and division using known multiplication tables,including 2-digit x 1-digit, using mental and progressing to formal written methods. Write and calculate mathematical statements for multiplication and division using known multiplication tables, including use of money and length Recognise and show, using diagrams, equivalent fractions with small denominators. Recognise, find and write fractions of a discrete set of objects: unit fractions & non-unit fractions with small denominators. Compare and order unit fractions, and fractions with the same denominators.	Revise all Year 3 activities associated with place value, including additional reasoning activities. Count up and down in tenths; recognise that tenths arise from dividing an object into ten equal parts and in dividing numbers or quantities by 10. Add and subtract measures (length, weight and volume) with up to 3 digits, using formal written methods of columnar addition and subtraction. Additional practice for formal methods of multiplication and division, including a high focus on reasoning. Write and calculate measures for multiplication and division using known multiplication tables, including 2-digit x 1-digit, using mental and progressing to formal written methods. Revise all Year 3 activities associated with fractions and decimals. Know the numbers 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 time taken by particular events or tasks. Consolidate: Adding and subtracting amounts of money to give change, using both £ and p in practical contexts.

	Make 3D shapes using modelling materials; recognise 3D shapes in different orientations; & describe them	Add and subtract fractions with the same denominator within one whole. Measure, compare, add & subtract: - lengths (m/cm/mm) - mass (kg/g) - volume/ capacity (l/ml) 12-hour & 24-hour clocks Record and compare time in terms of seconds, minutes, hours. Use vocabulary such as o'clock, am/pm, morning, afternoon, noon and midnight. Draw 2D shapes Recognise angles are 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 & 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 & parallel lines Solve 1-step and 2-step questions such as 'How many more?' and 'How many fewer?' using information presented in scaled bar charts pictograms and other graphs
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	Count backwards through zero to include negative numbers Count in multiples of 6, 7, 9, 25 and 1000. Add and subtract numbers with up to 4 digits	Read Roman numerals to 100 and understand that over time, the numeral system changes to include the concept of zero and place value Find 1000 more or less than a given number	Compare and order numbers beyond 1000 Round any number to the nearest 10, 100 or 1000 Solve addition and subtraction two-step problems in contexts, deciding which operations

Year 4	using the formal written methods of columnar addition and subtraction, where appropriate. Estimate and use inverse operations to check answers to a calculation. Recognise and use factor pairs and commutativity in mental calculations. Multiply 2-digit and 3-digit numbers by a 1-digit number using formal written layout Read, write & convert time between analogue and digital 12- and 24-hour clocks Measure and calculate the perimeter of a rectilinear figure (including squares) in cm and m. Compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes. Interpret and present discrete and continuous data using appropriate graphical methods.	Consolidate: Add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate. Divide 2-digit and 3-digit numbers by a 1-digit number using formal written layout with no remainder. Use place value, known and derived facts to multiply and divide mentally, including multiplying by 0 and 1; multiplying three numbers together. Find the effect of multiplying a number with up to 2 decimal places by 10 and 100, identifying the value of the digits in the answer as ones, tenths and hundredths. Recognise and show, using diagrams, families of common equivalent fractions. Add and subtract fractions with the same denominator. Find the area of rectilinear shapes by counting squares. Describe positions on a 2D grid as coordinates in the first quadrant Identify lines of symmetry in 2D shapes presented in different	and methods to use and why. Add and subtract fractions with the same denominator. Find the effect of dividing a 1-digit or 2-digit number by 10 and 100, identifying the value of the digits in the answer as ones, tenths and hundredths. Count up and down in hundredths; recognise that hundredths arise from dividing an object into 100 equal parts and in dividing numbers or quantities by 100. Recognise and write decimal equivalents of any number of tenths or hundredths. Recognise and write decimal equivalents to $\frac{1}{4}$, $\frac{1}{2}$ and $\frac{3}{4}$. Round decimals with one decimal place to the nearest whole number. Compare numbers with the same number of decimal places up to two decimal places. Convert between different units of measure (e.g. km to m; hr to min) Describe positions on a 2D grid as coordinates in the first quadrant Describe movements between positions as translations of a given unit to the left/right and up/down
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		orientations. Complete a simple symmetric figure with respect to a specific line of symmetry.	Plot specified points and draw sides to complete given polygon Identify acute and obtuse angles and compare and order angles up to two right angles by size. Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs
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