Numeracy Overview Year 3/4

Number	Measurement	Geometry	Statistics
Year 3 Count from 0 in multiples of 4, 8, 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. 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 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, 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. 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 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 Compare and order unit fractions, and fractions with the same denominators Solve problems that involve all of the above	**Year 3** Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml) Measure the perimeter of simple 2-D shapes Add and subtract amounts of money to give change, using both £ and p in practical contexts 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].	**Year 3** Draw 2-D shapes and make 3-D shapes using modelling materials; recognise 3-D shapes in different orientations and describe them 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.	**Year 3** 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.

Numeracy Overview Year 3/4

Year 4	Year 4	Year 4	Year 4
Count in multiples of 6, 7, 9, 25 and 1000	Convert between different units of measure [for example, kilometre to metre; hour to minute]	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, including bar charts and time graphs.
Find 1000 more or less than a given number			
Count backwards through zero to include negative numbers	Measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres	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.
Recognise the place value of each digit in a four-digit number (thousands, hundreds, tens, and ones)			
Order and compare numbers beyond 1000	Find the area of rectilinear shapes by counting squares	Identify lines of symmetry in 2-D shapes presented in different orientations	
Identify, represent and estimate numbers using different representations			
Round any number to the nearest 10, 100 or 1000	Estimate, compare and calculate different measures, including money in pounds and pence	Complete a simple symmetric figure with respect to a specific line of symmetry.	
Solve number and practical problems that involve all of the above and with increasingly large positive numbers			
Read Roman numerals to 100 (I to C) and know that over time, the numeral system changed to include the concept of zero and place value.	Read, write and convert time between analogue and digital 12- and 24-hour clocks	Describe positions on a 2-D grid as coordinates in the first quadrant	
Add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate			
Estimate and use inverse operations to check answers to a calculation	Solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days.	Describe movements between positions as translations of a given unit to the left/right and up/down	
Solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why.			
Recall multiplication and division facts for multiplication tables up to 12 × 12		Plot specified points and draw sides to complete a given polygon.	
Use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together three numbers			
Recognise and use factor pairs and commutativity in mental calculations			
Multiply two-digit and three-digit numbers by a one-digit number using formal written layout			
Solve problems involving multiplying and adding, including using the distributive law to multiply two digit numbers by one digit, integer scaling problems and harder correspondence problems such as n objects are connected to m objects.			
Recognise and show, using diagrams, families of common equivalent fractions			
Count up and down in hundredths; recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten.			
Solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number			
Add and subtract fractions with the same denominator			
Recognise and write decimal equivalents of any number of tenths or hundredths			
Recognise and write decimal equivalents to ¼, ½, ¾			
Find the effect of dividing a one- or two-digit number by 10 and 100, identifying the value of the digits in the answer as ones, tenths and hundredths			
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			
Solve simple measure and money problems involving fractions and decimals to two decimal places.			