End of year expectations by year group in mathematics YEAR 3

Number, including place value, calculation and fractions

Count from 0 in multiples of 4, 8, 50 and 100 (up and back). Find 10 or 100 more or less than a given number mentally. Recognise the place value of each digit in a 3 digit number (including with zero value). Compare and order numbers up to 1000 (e.g. using number lines and <>). Read and write and spell numbers up to 1000 in numerals and in words. Identify, represent and estimate numbers using different representations (e.g. grouping, tallying etc.)

Add and subtract numbers mentally, including a 3-digit number and tens and 3- digit numbers and hundreds. Add and subtract numbers with up to 3-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 including for two-digit numbers times one-digit numbers. Solve problems, including missing number problems, involving multiplication and division. Solve positive integer scaling problems and correspondence problems in which n objects are connected to m objects.

Know that a tenth arises from dividing an object into 10 equal parts and write this as $^{1}/_{10}$. Recognise, find and write unit and non-unit fractions of a discrete set of objects. Recognise and use unit and non-unit fractions with small denominators as numbers. Recognise and show, equivalent fractions with small denominators. Add and subtract fractions with the same denominator within one whole [for example, $^{5}/_{7} + {}^{1}/_{7} = {}^{6}/_{7}$]. Compare and order (a range of) unit fractions, also non-unit fractions with the same denominators.

Measurement

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 (single unit only). 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.

Geometry

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 and 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 (in shapes). Identify pairs of perpendicular and parallel lines in shapes.

Statistics

Interpret and present data using bar charts, pictograms and tables. Solve one-step and two-step questions using information presented in scaled bar charts and pictograms and tables.