



Year 3

National Curriculum Maths Objectives

Place value

- ★ 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

Addition and Subtraction

- ★ add and subtract numbers mentally, including: a three-digit number and ones
- ★ add and subtract numbers mentally, including: a three-digit number and tens
- ★ add and subtract numbers mentally, including: 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

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

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
- ★ 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, five sevenths + one seventh = six sevenths]
- ★ compare and order unit fractions, and fractions with the same denominators
- ★ solve problems that involve all of the above

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; 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: Shapes

- ★ 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

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