

Stage 3 attainment targets

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.
- Read and write numbers up to 1000 in numerals and in words.
- Identify, represent and estimate numbers using different representations.
- Solve number problems and practical problems involving these ideas.

Addition and subtraction

- Add and subtract numbers mentally, including: a 3-digit no and 1s, 10s, 100s.
- Add and subtract numbers with up to 3 digits, using formal written methods of columnar add and sub.
- 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/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 \times and \div using the tables known, including 2-digit numbers times 1-digit numbers, using mental and progressing to formal written methods.
- Solve problems and missing number problems, involving \times and \div , 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 (e.g. $\frac{5}{7} + \frac{1}{7} = \frac{6}{7}$).
- Compare and order unit fractions, and fractions with the same denominators.
- Solve problems involving fractions

Measure

- 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/write the time from an analogue clock, including Roman numerals from I to XII, and 12-hr/24-hr clocks.
- Estimate and read time with increasing accuracy to nearest minute; record/compare time in secs, minutes, 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.

Geometry

- Draw 2-D shapes and make 3-D shapes using modelling materials
- Recognise 3-D shapes in different orientations and describe them.
- Recognise that angles are a property of shape or a description of a turn.
- Identify right angles, recognise that 2 right angles make a half-turn, 3 make three quarters of a turn and 4 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 such as 'How many more?' and 'How many fewer?' using information presented in scaled bar charts and pictograms and tables.