



H.C.J.S - Year 4 Mathematics

These expectations are based upon the National Curriculum. The skills outlined below consolidate, develop and extend those skills taught in previous years.

By the end of Year 4, we would expect the majority of pupils to be able to:

Year 4 Key Skills – Number

- ☐ count on/back in steps of 1000. Using negative numbers.
- ☐ count in 6, 7, 9 and 25.
- ☐ recognise place value of four digit numbers.
- ☐ read roman numerals to 100.
- ☐ identify and estimate numbers to 10 000.
- ☐ order and compare numbers beyond 1000.
- ☐ round whole numbers to 10,000 to the nearest 10, 100 or 1000.
- ☐ use distributive law to multiply two digit numbers by one digit.
- ☐ understand and use inverse relationship between addition and subtraction.
- ☐ mentally add and subtract pairs of three-digit and four digit numbers.
- ☐ 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.
- ☐ solve calculation problems involving two-step addition and subtraction
- ☐ recall multiplication and division facts for multiplication tables up to 12×12
- ☐ add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate.
- ☐ multiply two digit and three-digit numbers by a one digit number using formal written layout.
- ☐ divide two digit and three-digit numbers by a one digit number using formal written layout.
- ☐ check answers to addition and subtraction calculations by estimating and using inverse operations.

Year 4 Key Skills – Fractions, decimals and percentages

- ☐ make connections between fractions of a length, of a shape and as a representation of one whole or a set of quantities.
- ☐ use factors and multiples to recognise equivalent fractions and simplify where appropriate.
- ☐ divide a one or two-digit numbers 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.
- ☐ recognise and write decimal equivalents of any number of tenths or hundredths and $\frac{1}{4}$; $\frac{1}{2}$; $\frac{3}{4}$.
- ☐ rounds decimals with one decimal place to the nearest whole number.
- ☐ solve simple measure and money problems involving fractions and decimals to two decimal places.

Year 4 Key Skills – Measurement

- ☐ read, write and convert time between analogue and digital 12- and 24-hour clocks.
- ☐ convert from larger to smaller units of time.

- ☐ convert from larger to smaller units of metric measure.
- ☐ measure the perimeter of a rectilinear figure.
- ☐ find the area of rectilinear shapes by counting squares and relate it to multiplication arrays.

Year 4 Key Skills – Measurement

- ☐ complete a simple symmetric figure with respect to a specific line of symmetry, and measure angles using a protractor.
- ☐ identify lines of symmetry in 2-D shapes presented in different orientations, including where the line of symmetry does not dissect the original shape.
- ☐ continue to recognise 3-D shapes, using the correct language.
- ☐ compare and classify geometric shapes, including different types of quadrilaterals and triangles, based on their properties and sizes.
- ☐ identify acute and obtuse angles. Compare and order angles up to two right angles by size.
- ☐ describe positions on a 2-D grid as coordinates in the first quadrant.
- ☐ describe movement between positions as translations of a given unit to the left/right and up/down.

Year 4 Key Skills – Statistics

- ☐ interpret and present discrete and continuous data using appropriate graphical methods, including time graphs.