

Year 3 Maths Key Objectives

Summarised form

- 1 Count in multiples of 4, 8, 50 and 100
- 2 Compare and order numbers up to 1000
- 3 Add and subtract numbers mentally, including round numbers to HTU
- 4 Add and subtract using standard column method
- 5 Estimate answers to calculations and use the inverse to check answers
- 6 Know $3\times$, $4\times$ and $8\times$ tables
- 7 Count up and down in tenths
- 8 Understand that tenths are objectives or quantities divided into ten equal parts
- 9 Compare and order simple fractions
- 10 Recognise and show equivalent fractions
- 11 Find and write fractions of a set of objects
- 12 Add and subtract fractions with common denominators (less than one)
- 13 Measure, compare and calculate measures using standard units
- 14 Measure the perimeter of simple 2-D shapes
- 15 Add and subtract money, including giving change
- 16 Tell and write the time from an analogue clock, including using Roman numerals
- 17 Estimate and read time to the nearest minute
- 18 Identify horizontal, vertical, parallel and perpendicular lines
- 19 Identify whether angles are greater or less than a right angle
- 20 Interpret and present data using bar charts, pictograms and tables

Year 4 Maths Key Objectives

Summarised form

- 1 Count backwards through zero, including negative numbers
- 2 Recognise place value in four-digit numbers
- 3 Round any number to the nearest 10, 100 or 1000
- 4 Know tables up to 12×12
- 5 Use place value and number facts to carry out mental calculations
- 6 Use factor pairs and commutativity in mental calculations
- 7 Use short multiplication method
- 8 Recognise and use hundredths
- 9 Recognise and write decimal equivalents to $\frac{1}{4}$, $\frac{1}{2}$ and $\frac{3}{4}$
- 10 Divide one- or two-digit numbers by 10 and 100, using tenths and hundredths
- 11 Round decimals with one decimal place to the nearest whole number
- 12 Compare numbers up to two decimal places
- 13 Convert between different units of metric measurement, including money
- 14 Find the area of rectilinear shapes by counting squares
- 15 Solve problems converting units of time
- 16 Compare and classify shapes, including quadrilaterals and triangles
- 17 Complete a simple symmetric figure with respect to a specific line of symmetry
- 18 Describe positions on a 2-D grid using co-ordinates
- 19 Describe translations using a given unit to the left/right and up/down
- 20 Interpret and present discrete and continuous data on appropriate graphs

Year 5 Maths Key Objectives

Summarised form

- 1 Interpret negative numbers in context
- 2 Read Roman numerals to 1000, including years
- 3 Recognise and use square and cube numbers, and know the notation
- 4 Use rounding to check answers and determine accuracy
- 5 Identify multiples and factors, including finding factor pairs and common factors
- 6 Use vocabulary: prime numbers, prime factors and composite numbers
- 7 Know prime numbers up to 19
- 8 Multiply and divide numbers by 10, 100 or 1000, including decimals
- 9 Use long multiplication for multiplying numbers of up to 4 digits by one or two digits
- 10 Divide numbers using standard written short division
- 11 Convert between mixed numbers and improper fractions
- 12 Compare and order fractions whose denominators are multiples of the same number
- 13 Identify, name and write equivalent fractions including tenths and hundredths
- 14 Add and subtract fractions with denominators that are multiples of the same number
- 15 Multiply proper fractions and mixed numbers by whole numbers with support
- 16 Read and write decimal numbers as fractions
- 17 Round decimals with 2 decimal places to whole number or to one decimal place
- 18 Read, write, order and compare numbers with up to 3 decimal places
- 19 Recognise % symbol and explain as a fraction with denominator 100 (parts out of 100)
- 20 Understand and use common approximate conversions between metric and imperial
- 21 Measure and calculate the perimeter of composite rectilinear shapes
- 22 Calculate the area of rectangles, and estimate the area of irregular shapes
- 23 Use the properties of rectangles to find missing lengths and angles
- 24 Distinguish between regular and irregular polygons
- 25 Identify 3-d shapes from 2-d representations
- 26 Know angles are measured in degrees and compare acute, obtuse and reflex angles
- 27 Draw and measure angles to the nearest degree
- 28 Identify angles at a point, in a turn and on a straight line
- 29 Describe and represent the result of a reflection or translation
- 30 Complete, read and interpret information in tables, including timetables

Year 6 Maths Key Objectives

Summarised form

- 1 Use negative numbers to calculate intervals across zero
- 2 Divide numbers using long division, interpreting the remainders as appropriate
- 3 Use order of operations to carry out calculations
- 4 Use common factors to simplify fractions
- 5 Compare and order fractions of any size
- 6 Add and subtract fractions with different denominators and mixed numbers
- 7 Multiply simple pairs of proper fractions
- 8 Divide proper fractions by whole numbers
- 9 Calculate decimal fraction equivalents for simple fractions
- 10 Multiply a number with up to two decimal places by whole numbers
- 11 Use written division with answers of up to two decimal places
- 12 Solve problems involving the calculation of percentages
- 13 Recall and use equivalences between fractions, decimals and percentages
- 14 Solve problems using ratio using multiplication and division facts
- 15 Solve problems involving similar shapes where the scale factor is known
- 16 Solve problems involving proportion, using knowledge of fractions and multiples
- 17 Use simple formulae
- 18 Generate and describe linear number sequences
- 19 Express missing number problems algebraically
- 20 Convert units of measure between smaller and larger units
- 21 Convert between miles and kilometres
- 22 Calculate the area of parallelograms and triangles
- 23 Calculate and compare volume of cubes and cuboids
- 24 Illustrate and name parts of a circle
- 25 Finding missing angles in triangles, quadrilaterals and regular polygons
- 26 Recognise vertically opposite angles and find missing angles
- 27 Describe positions on the full co-ordinate grid
- 28 Translate shapes on a co-ordinate grid and reflect in the axes
- 29 Construct and interpret pie charts
- 30 Calculate the mean as an average