

NEW MATHS CURRICULUM OBJECTIVES YEAR 4

Number and Place Value
To count in multiple of 6,7,9,25 and 1000
To count back through zero using negative numbers
To know the place value of each digit in a 4 digit number
To order and compare numbers beyond 1000
To identify, represent and estimate numbers using different representations
To round any number to the nearest 10,100 or 1000
To solve number and practical problems that involve all of the above with increasingly large numbers
To read Roman numerals to 100 (I to C) and know that Roman numerals don't have zeros or place value.

Calculations
Addition and Subtraction
To add and subtract numbers with up to 4 digits using the formal written method of columnar addition and subtraction
To estimate and use inverse operations to check answers to a calculations
To solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use
Multiplication and Division
To recall multiplication and division facts for multiplication tables up to 12 x 12
To 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
To recognise and use factor pairs and commutativity in mental calculations
Multiply two digit and three digit numbers by a one digit number using formal written layout
Solve problems involving multiplying and adding, including using the distributive law to multiply two digit numbers by one digits, interger scaling problems and harder correspondence problems such as n objects are connected to m objects.

Fractions, Decimals and Percentages
To recognise and show using diagrams, families of common equivalent fractions
To count up and down in hundredths, to know that hundredths come from dividing 1 by 100 and dividing tenths by 10.
To solve problems that involve calculating fractions of amounts
To add or subtract fractions with the same denominator
To recognise and write decimal equivalents of any number of tenths or hundredths

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To recognise and write decimal equivalents to $\frac{1}{4}$, $\frac{1}{2}$, $\frac{3}{4}$
To divide a one or two digit number by 10 or 100 (knowing the value of the digits)
To round decimals with one decimal place to the nearest whole number
To compare numbers with the same number of decimal places up to two decimal places.
To solve simple measure and money problems that involve fractions and decimals.

Measurement
To convert between different units of measure (km to m, h to s)
To measure and calculate the perimeter of a rectilinear shape
To calculate the area of rectilinear shapes by counting squares
To estimate, compare and calculate different measures, including money in pounds and pence
To read, write and convert time between analogue and digital 12 and 24 hour clocks
To solve problems by converting between different using of time.

Geometry
To compare and classify geometric shapes, including quadrilaterals and triangles based on their properties and sizes
To identify acute and obtuse angles and compare and order angles up to two right angles by size
To identify lines of symmetry in 2D shapes presented in different orientations
To complete a simple symmetrical shape to a specific line of symmetry
To describe positions on a 2D grid as co-ordinates in the first quadrant
To describe movements between positions as translations of a given unit to the left/right and up/down
To plot coordinates and draw sides to complete shapes

Statistics
To interpret and present discrete (bar chart) and continuous (time graphs) data using appropriate methods
To solve problems (comparison, sum and difference) using data from bar charts, pictograms, tables and other graphs.