MATHEMATICS Key Stage 2 Year 4

Key Stage	Strand	Objective	Child Speak Target	Greater Depth Target
KS 2 Y4	Number Place Value			
KS 2 Y4	Number Place Value	[KEY] Count in multiples of 6, 7, 9, 25 and 1000.	*I can count in multiples of 6, 7, 9, 25 and 1000.*	*I can count in multiples of 6, 7, 9, 25 and 1000 and use this to spot number patterns and rules.*
KS 2 Y4	Number Place Value	Find 1000 more or less than a given number.	*I can find 1000 more or less than a given number.*	*I can find 1000 more or less than a given number or unit of measure.*
KS 2 Y4	Number Place Value	[KEY] Count backwards through zero to include negative numbers.	*I can count backwards to negative numbers below zero.*	*I can count backwards quickly to negative numbers below zero.*
KS 2 Y4	Number Place Value	Recognise the place value of each digit in a four-digit number (thousands, hundreds, tens, and ones).	*I know what each digit means in four-digit numbers such as 2024.*	*I know what each digit means in four-digit numbers when working with money and measures such as 7024g.*
KS 2 Y4	Number Place Value	[KEY] Order and compare numbers beyond 1000.	*I can order and compare numbers above 1000.*	*I can confidently order and compare numbers above 1000 in contexts of money or measures.*
KS 2 Y4	Number Place Value	Identify, represent and estimate numbers using different representations.	*I can make estimates of a range of things - such as how many small objects there are in a large jar, how long in cm an object is, how heavy an object may weigh in kg.*	*I can make estimates of a range of things across different subjects - such as how many small objects there are in a large jar, how long in cm an object is, how heavy an object may weigh in kg.*
KS 2 Y4	Number Place Value	[KEY] Round any number to the nearest 10, 100 or 1000.	*I can round a number to the nearest 10, 100 or 1000.*	*I can round a number to the nearest 10, 100 or 1000 and use this in different problems.*
KS 2 Y4	Number Place Value	Solve number and practical problems that involve rounding, ordering and exploring negative numbers and with increasingly large positive numbers.	*I can solve number and practical problems that involve rounding, ordering and exploring negative numbers and with increasingly large positive numbers.*	*I can solve more complex number and practical problems that involve rounding, ordering and exploring negative numbers and with large positive numbers confidently.*
KS 2 Y4	Number Place Value	Read Roman numerals to 100 (I to C) and know that over time, the numeral system changed to include the concept of zero and place value.	*I can read Roman numerals to 100 (I to C) and know that over time, the numeral system changed to include the concept of zero and place value.*	*I can read and use Roman numerals to 100 (I to C) independently and know that over time, the numeral system changed to include the concept of zero and place value.*
KS 2 Y4	Addition Subtraction			
KS 2 Y4	Addition Subtraction	Add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate.	*I can add and subtract numbers with up to 4 digits using written methods (for example, using column addition and subtraction).*	*I can add and subtract numbers with up to 4 digits, including decimal numbers, using written methods (for example, using column addition and subtraction).*
KS 2 Y4	Addition Subtraction	Estimate and use inverse operations to check answers to a calculation.	*I can estimate an answer and check my answer using inverse operations.*	*I can accurately estimate an answer and independently check my answer using inverse operations.*

KS 2 Y4	Addition Subtraction	[KEY] Solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why.	*I can solve longer addition and subtraction problems and explain all the steps I took and why I worked things out as I did.*	*I can solve addition and subtraction two-step problems involving decimal notation, choosing the most efficient methods.*
KS 2 Y4	Multiplication Division			
KS 2 Y4	Multiplication Division	[KEY] Recall multiplication and division facts for multiplication tables up to 12 × 12.	*I know all my times table up to the 12 times tables.*	*I know all my times table up to the 12 times tables and can use them quickly.*
KS 2 Y4	Multiplication Division	Use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1.	*I know what the outcome is when I multiply a number by 1 or by zero.*	*I know what the outcome is when I multiply a decimal value by 1 or by zero.*
KS 2 Y4	Multiplication Division	Use place value, known and derived facts to multiply and divide mentally, including: Dividing by 1.	*I know what the outcome is when I divide a number by 1.*	*I can calculate the outcome of a decimal divided by another number.*
KS 2 Y4	Multiplication Division	Use place value, known and derived facts to multiply and divide mentally, including: multiplying together three numbers.	*I can multiply three numbers together, such as 3 x 6 x 9.*	*I can multiply three numbers together, such as 7 x 6 x 9 quickly and accurately.*
KS 2 Y4	Multiplication Division	Recognise and use factor pairs and commutativity in mental calculations.	*I know what factor pairs are how I can multiply numbers in any order and use my knowledge to work out questions in my head.*	*I know what factor pairs are I can multiply numbers in any order and use my knowledge to work out questions in my head confidently.*
KS 2 Y4	Multiplication Division	Multiply two-digit and three-digit numbers by a one-digit number using formal written layout.	*I can multiply a two-digit or a three-digit number by a one-digit number using written methods.*	*I can solve real-life problems by multiplying a two-digit or a three-digit number by a one-digit number using written methods.*
KS 2 Y4	Multiplication Division	Solve problems involving multiplying and adding, including using the distributive law to multiply two digit numbers by one digit, integer scaling problems and harder correspondence problems such as n objects are connected to m objects.	*I can solve maths problems such as - how many different outfits can I make from 3 hats and 4 coats.*	*I can solve more complex maths problems such as - how many different outfits can I make from 3 hats and 4 coats and begin to write a mathematical rule.*
KS 2 Y4	Fractions			
KS 2 Y4	Fractions	[KEY] Recognise and show, using diagrams, families of common equivalent fractions.	*I can show in drawings why a number of fractions equal each other (such as 3/5 and 6/10) and are called equivalent fractions.*	*I can show in drawings why a number of fractions equal each other (such as 3/7 and 6/14) and are called equivalent fractions and begin to use this in different subjects and contexts.*
KS 2 Y4	Fractions	[KEY] Count up and down in hundredths; recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten.	*I can count up and down in hundredths and know that a hundredth is made by dividing an object by one hundred and a tenth is made by dividing an object by ten.*	*I can count up and down in hundredths and know that a hundredth is made by dividing an object by one hundred and a tenth is made by dividing an object by ten and begin to compare this with units of measurement*
KS 2 Y4	Fractions	Solve problems involving increasingly harder fractions to calculate	*I can work out the fractions of numbers such as 4/5 of*	*I can work out the fractions of numbers such as 4/7 of*

		quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number.		*25 or 7/10 of 700.*	*28 or 7/12 of 648 to solve part of a multi-step problem*
KS 2 Y4	Fractions	Add and subtract fractions with the same denominator.		*I can add and subtract fractions with the same denominator.*	*I can add and subtract fractions with the same denominator to solve problems in different subjects.*
KS 2 Y4	Fractions	Recognise and write decimal equivalents of any number of tenths or hundredths.		*I can tell you the decimal equivalents of any number of tenths or hundredths - such as 1/10 = 0.1 and 23/100 = 0.23.*	*I can tell you the decimal equivalents of any number of tenths or hundredths - such as 1/10 = 0.1 and 43/100 = 0.43 and order them.*
KS 2 Y4	Fractions	Recognise and write decimal equivalents to 1/4, 1/2, 3/4.		*I know what the decimal equivalents are for 1/4, 1/2 and 3/4.*	*I know what the decimal equivalents are for 1/4, 1/2, 2/4 and 3/4 and can order them independently.*
KS 2 Y4	Fractions	Find the effect of dividing a one- or two-digit number by 10 and 100, identifying the value of the digits in the answer as ones, tenths and hundredths.		*I can divide a one- or two-digit number by 10 and 100 and I know what the tenths and hundredths mean after the decimal point.*	*I can confidently divide a one- or two-digit number by 10 and 100 and I know what the tenths and hundredths mean after the decimal point.*
KS 2 Y4	Fractions	[KEY] Round decimals with one decimal place to the nearest whole number.		*I can round decimals with one decimal place to the nearest whole number.*	*I can round decimals with one decimal place to the nearest whole number and use this to estimate and check the answers to problems.*
KS 2 Y4	Fractions	Compare numbers with the same number of decimal places up to two decimal places.		*I can compare numbers such as 0.26 and 0.56 to say which is bigger or lower.*	*I can compare and order a string of numbers such as 0.26, 0.31 and 0.56 to say which is bigger or lower.*
KS 2 Y4	Fractions	[KEY] Solve simple measure and money problems involving fractions and decimals to two decimal places.		*I can solve measure and money problems involving fractions and decimals to two decimal places.*	*I can solve more complex measure and money problems involving fractions and decimals to two decimal places.*
KS 2 Y4	Measurement				
KS 2 Y4	Measurement	[KEY] Convert between different units of measure [for example, kilometre to metre; hour to minute].		*I can convert one unit of measurement to another, such as kilometre to metre, hour to minute and cm to mm.*	*I can convert one unit of measurement to another, such as kilometre to metre, hour to minute and cm to mm to solve real-life problems.*
KS 2 Y4	Measurement	Measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres.		*I can measure and calculate the perimeter of a rectangle (including a square).*	*I can measure and calculate the perimeter of compound rectangles.*
KS 2 Y4	Measurement	Find the area of rectilinear shapes by counting squares.		*I can find the area of a rectangular shape by counting the number of squares the shape takes up.*	*I can find the area of a rectangular shape by multiplying the length and width together.*
KS 2 Y4	Measurement	Estimate, compare and calculate different measures, including money in pounds and pence.		*I can estimate and compare the measurements of a range of measures (such as cm, km, g, litres) and money.*	*I can estimate and compare the measurements of a range of measures (such as cm, km, g, litres) and money, and use this to solve real-life problems.*
KS 2 Y4	Measurement	Read, write and convert time between analogue and digital 12- and 24-hour clocks.		*I can read, write and convert time between clocks with hands (analogue clocks) and digital 12- and 24-*	*I can solve problems involving reading, writing and converting time between clocks with hands (analogue*

			hour clocks.	clocks) and digital 12- and 24-hour clocks.
KS 2 Y4	Measurement	Solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days.	*I can convert hours to minutes, minutes to seconds, years to months and weeks to days.*	*I can confidently solve problems by converting between hours and minutes, minutes and seconds, years and months, and weeks and days*
KS 2 Y4	Shape			
KS 2 Y4	Shape	[KEY] Compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes.	*I can group 2-D shapes based on their properties (such as the number of sides) and sizes.*	*I can organise and compare 2-D shapes based on their range of properties (such as the number of sides) and sizes.*
KS 2 Y4	Shape	Identify acute and obtuse angles and compare and order angles up to two right angles by size.	*I can find acute and obtuse angles and order a set of given angles by size.*	*I can find acute and obtuse angles and order a large set of given angles by size independently.*
KS 2 Y4	Shape	[KEY] Identify lines of symmetry in 2-D shapes presented in different orientations.	*I can find all the lines of symmetry in 2-D shapes.*	*I can find all the lines of symmetry in 2-D shapes independently.*
KS 2 Y4	Shape	Complete a simple symmetric figure with respect to a specific line of symmetry.	*If I have been given one half of a symmetrical shape, I can complete the other half based on the position of the line of symmetry.*	*If I have been given one half of a complex symmetrical shape, I can complete the other half based on the position of the line of symmetry.*
KS 2 Y4	Position			
KS 2 Y4	Position	Describe positions on a 2-D grid as coordinates in the first quadrant.	*I can find the coordinates of a point on a grid.*	*I can find and plot the coordinates of a point on a grid.*
KS 2 Y4	Position	Describe movements between positions as translations of a given unit to the left/right and up/down.	*I can move (translate) a point on a grid by a given set of jumps either up/down or left/right.*	*I can accurately move (translate) a shape or set of points on a grid by a given set of jumps either up/down or left/right.*
KS 2 Y4	Position	[KEY] Plot specified points and draw sides to complete a given polygon.	*I can plot points using coordinates and join up the points to create a shape.*	*I can plot points using coordinates and join up the points to create regular and irregular shapes.*
KS 2 Y4	Statistics			
KS 2 Y4	Statistics	Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs.	*I can take continuous and discrete data and create a bar chart or time graph.*	*I can take continuous and discrete data and create a bar chart or time graph from a range of different subjects.*
KS 2 Y4	Statistics	[KEY] Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs.	*I can solve comparison, sum and difference problems using information in bar charts, pictograms, tables and other graphs.*	*I can solve comparison, sum and difference problems using information in bar charts, pictograms, tables and other graphs across different subjects.*