## Information for Parents/Carers

## Mathematics Targets - A Year 1 Mathematician

## Number

I can count reliably to 100.
I can count on and back in $1 \mathrm{~s}, 2 \mathrm{~s}, 5 \mathrm{~s}$ and 10 s from any given number up to 100 .
I can write all numbers in words to 20.
I can say the number that is one more or one less than a number to 100.
I can recall all pairs of addition and subtraction number bonds to 20.
I can add and subtract 1-digit and 2-digit numbers to 20, including zero.
I know the signs + - =.
I can solve a missing number problem.
I can solve a one-step problem using addition and subtraction, using concrete objects and pictorial representations.

## Measurement and geometry

I recognise all coins.
I recognise and can name the 2D shapes: circle, triangle, square and rectangle.
I recognise and can name the 3D shapes: cuboid, pyramid, sphere.
I can name the days of the week and months of the year.
I can tell the time to o'clock and half past the hour.

## Information for Parents/Carers

## Mathematics Targets

## Exceeding Year 1 Expectations

I can count reliably well beyond 100.
I can count on and back in 3 s from any given number to beyond 100.
I can say the number that is 10 more or 10 less than a number - up to 100.
I know the signs (+); (-); (=); (<); (>).
I can apply my knowledge of number to solve a one-step problem involving an addition, a subtraction and simple multiplication and division.

I can add and subtract 1-digit and 2-digit numbers to 50, including zero.
I can recognise all coins and notes and know their value.
I can use coins to pay for items bought up to $£ 1$.
I can use my knowledge of time to know when key periods of the day happen, for example, lunchtime, home time, etc.

I can recognise different 2D and 3D shapes in the environment.

## Information for Parents/Carers

## Mathematics Targets - A Year 2 Mathematician

## Number

I can read and write all numbers to at least 100 in numerals and words.
I recognise odd and even numbers to 100 .
I can count in steps of 2,3 and 5 from 0.
I recognise and can define the place value of each digit in a 2 digit number.
I can compare and order numbers from 0 to 100 using the < > and = signs.
I can name the fractions $1 / 3,1 / 4,1 / 2$ and $3 / 4$ and can find fractional values of shapes, lengths and numbers.

I can recall and use multiplication and division facts for the 2,5 and $10 x$ tables.
I can add and subtract a 2-digit number and ones.
I can add and subtract a 2-digit number and tens.
I can add and subtract two 2-digit numbers.
I can add three 1-digit numbers.
I can solve problems involving addition and subtraction.
I understand and can use commutativity in relation to addition, subtraction, multiplication and division.

## Measurement and geometry

I can choose and use appropriate standard units to estimate length, height, temperature and capacity.

I can tell and write the time to 5 minute intervals.
I recognise and can use the symbols $£$ and $p$ when solving problems involving addition and subtraction of money.

I can describe the properties of 2D and 3D shapes to include edges, vertices and faces.
I can interpret and construct pictograms, tally charts, block diagram and simple tables.

## Information for Parents/Carers

## Mathematics Targets

## Exceeding Year 2 Expectations

I can count reliably up to 1000 in $2 s, 5$ s and 10 s.
I can count on and back in multiples of $4,8,25,50$ and 100 from any given number to beyond 1000.
I can add and subtract fractions with a common denominator.
I can apply knowledge of number up to 100 to solve a one-step problem involving a addition, subtraction and simple multiplication and division.

I can apply knowledge of addition and subtraction to pay for items, up to $£ 10$, within a problem solving context.

I can add and subtract two 2-digit and numbers to 100.
I can use an appropriate strategy to add and subtract numbers that move between and through 100, for example, $97+7$; 103-8.

I know about right angles and where they can be seen in the environment.
I can tell the time to 5 minute intervals with both analogue and digital clocks and relate one to the other. I can measure, compare, add and subtract using common metric measures.

## Information for Parents/Carers

## Mathematics Targets - A Year 3 Mathematician

## Number

I can compare and order numbers to 1000 and read and write numbers to 1000 in numerals and words.

I can count from 0 in multiples of 4, 8, 50 and 100.
I can recognise the value of each digit in a 3-digit number.
I understand and can count in tenths, and find the fractional value of a given set.
I can add and subtract fractions with a common denominator.
I can derive and recall multiplication facts for 3,4 and $8 x$ tables.
I can add and subtract mentally combinations of 1-digit and 2-digit numbers.
I can add and subtract numbers with up to 3-digits using formal written methods.
I can write and calculate mathematical statements for multiplication and vision using the $2 x, 3 x$, $4 x, 5 x, 8 x$ and $10 x$ tables.

I can calculate 2-digit x 1-digit.
I can solve number problems using one and two step problems .

## Measurement and geometry

I can identify right angles and can compare other angles stating whether they are greater or smaller than a right angle.

I can identify horizontal and vertical lines and pairs of perpendicular and parallel lines.
I can tell the time to the nearest minute and use specific vocabulary, including seconds, am \& pm.
I can measure, compare, add and subtract using common metric measures.
I can solve one and two step problems using information presented in scaled bar charts, pictograms and tables.

## Information for Parents/Carers

## Mathematics Targets

## Exceeding Year 3 Expectations

I can recognise the value of each digit in a 4-digit number and the value of a tenth.
I know all multiplication facts up to $10 \times 10$ and can instantaneously answer questions such as, how many 7 s in 42?

I can add and subtract numbers with any number of digits using formal written methods.
I am beginning to have an understanding about negative numbers recognising they are smaller than zero. I can multiply and divide any 2-digit number by a single digit number and have an understanding of 'remainder'.

I can find fractional values (from $1 / 2$ to $1 / 10$ ) of amounts up to 1000.
I can use my knowledge of number to solve problems related to money, time and measures.
I know that the total internal angles of a triangle measure $180^{\circ}$ and can measure each angle
I can use my knowledge of time to help me solve problems related to timetables.
I can measure, compare, add and subtract when solving more complex problems using common metric measures set out in Kg,gms; KI,litres; Km and metres, etc.

## Information for Parents/Carers

## Mathematics Targets - A Year 4 Mathematician

## Number

I can recall all multiplication facts to $12 \times 12$.
I can round any number to the nearest 10,100 or 1000 and decimals with one decimal place to the nearest whole number.

I can count backwards through zero to include negative numbers.
I can compare numbers with the same number of decimal places up to 2-decimal places.
I can recognise and write decimal equivalents of any number of tenths or hundredths.
I can add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction.

I can divide a 1 or 2-digit number by 10 or 100 identifying the value of the digits in the answer as units, tenths and hundredths.
I can multiply 2-digit and 3-digit numbers by a 1-digit number using formal written layout.
I can solve two step addition and subtraction problems in context.
I can solve problems involving multiplication.

## Measurement and geometry

I can compare and classify geometrical shapes, including quadrilaterals and triangles, based on their properties and sizes.

I know that angles are measured in degrees and can identify acute and obtuse angles.
I can compare and order angles up to two right angles by size.
I can measure and calculate the perimeter of a rectilinear figure in cm and m .
I can read, write and convert between analogue and digital 12 and 24 hour times.
I can interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs.

## Information for Parents/Carers

## Mathematics Targets

## Exceeding Year 4 Expectations

I can use tenths, hundredths and thousandths when comparing values and solving addition and subtraction problems.

I can round any number to 100,000 to the nearest $10,100,1,000$ or 10,000.
I can relate tenths and hundredths to fractional values.
I can rapidly find the answer when multiplying and dividing a whole or decimal number by 10.
I can solve multi-step problems involving more than one of the operations.
I can work out simple percentage values of whole numbers, for example, as met in on-going learning in science, history and geography

I can compare and add fractions whose denominators are all multiples of the same number.
I can use a 24 -hour timetable to find out times for journeys between various places.
I can use my knowledge of perimeter to work out the perimeter of large areas around school, using metres and centimetres.

I can collect my own data on a given project and present information in graphical formats of my choosing.

## Information for Parents/Carers

## Mathematics Targets - A Year 5 Mathematician

## Number

I can count forwards and backwards in steps of powers of 10 for any given number up to 1,000,000. I recognise and use thousandths and relate then to tenths, hundredths and decimals equivalents. I recognise mixed numbers and improper fractions and can convert from one to the other. I can read and write decimal numbers as fractions. I recognise the \% symbol and understand percent relates to a number of parts per hundred. I can write percentages as a fraction with denominator hundred and as a decimal fraction. I can compare and add fractions whose denominators are all multiples of the same number. I can multiply and divide numbers mentally drawing on known facts up to $12 \times 12$. I can round decimals with 2 dp to the nearest whole number and to 1 dp . I recognise and use square numbers and cube numbers; and can use the notation ${ }^{2}$ and ${ }^{3}$. I can multiply and divide whole numbers and those involving decimals by 10, 100 and 1000.

I can multiply numbers up to 4-digit by a 1 or 2-digit number using formal written methods, including long multiplication for a 2-digit number.

I can divide numbers up to 4-digits by a 1-digit number.
I can solve problems involving multiplication and division where large numbers are used by decomposing them into factors.

I can solve addition and subtraction multi-step problems in context, deciding which operations and methods to use and why.

I can solve problems involving numbers up to 3 dp .

## Measurement and geometry

I know that angles are measured in degrees.
I can estimate and compare acute, obtuse and reflex angles.
I can draw given angles and measure them in degrees.
I can convert between different units of metric measures and estimate volume and capacity.
I can measure and calculate the perimeter of composite rectilinear shapes in cm and m .
I can calculate and compare the areas of squares and rectangles including using standards units ( $\mathrm{cm}^{2}$ and $\mathrm{m}^{2}$ ).

I can solve comparison, sum and difference problems using information presented in a line graph.

## Information for Parents/Carers

## Mathematics Targets

## Exceeding Year 5 Expectations

I have a concept of numbers well beyond 1,000,000 and their relative association to distances to planets; historical data and geographical aspects.

I can divide whole numbers (up to 4 digits) by 2-digit numbers, using my preferred method.
I can use rounding as a strategy for quickly assessing what approximate answers ought to be before calculating.
I can link working across zero for positive and negative numbers, for example, to work out time intervals between $B C$ and $A D$ in history

I can recognise the symbol for square root $(\mathrm{V})$ and work out square roots for numbers up to 100.
I can calculate number problems algebraically, for example, $2 x-3=5$
I can use my knowledge of measurement to create plans of areas around school, such as the classroom, field, outside play area, etc.
I can relate the imperial measures still used regularly in our society to their metric equivalents, for example, miles to Km and Ibs to Kg .
I can use a range of timetables to work out journey times on a fictional journey around the world, for example, "How long would it take to reach the rainforests in the Amazon?"
I can collect my own data on a personal project and present information in formats of my choosing using charts, graphs and tables.

## Information for Parents/Carers

## Mathematics Targets - A Year 6 Mathematician

## Number

I can use negative numbers in context, and calculate intervals across zero.
I can round any whole number to a required degree of accuracy and solve problems which require answers to be rounded to a specific degree of accuracy.

I can solve problems involving the relative sizes of two quantities where the missing values can be found by using integer multiplication and division facts.

I can use common factors to simplify fractions; use common multiples to express fractions in the same denomination.
I can solve problems involving the calculation of percentages.
I can multiply 1-digit numbers with up to two decimal places by whole numbers.
I can perform mental calculations, including with mixed operations with large numbers.
I can divide numbers up to 4-digits by a 2-digit whole number using formal written methods of long division and interpret remainder in various ways.

I use my knowledge of order of operations to carry out calculations involving all four operations.
I can add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions.

I can multiply simple pairs of proper fractions, writing the answer in its simplest form.
I can divide proper fractions by whole numbers.
I can associate a fraction with division and calculate decimal fraction equivalents.
I can express missing number problems algebraically.
I can find pairs of numbers that satisfy number sentences involving two unknowns.

## Measurement and geometry

I can recognise, describe and build simple 3D shapes, including making nets.
I can compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangle, quadrilateral and regular polygons.

I can illustrate and name parts of circles, including radius, diameter and circumference and know that the radius is half the diameter.

I can read, write and convert between standard units, converting measurements of length, mass, volume and time from a smaller unit of measure to a larger unit, and visa versa, using decimal notation to up to 3 decimal places.

I can calculate the area of a parallelogram and triangles and calculate, estimate and compare volume of cubes and cuboids using standard units.

I can interpret and construct pie charts and line graphs and use these to solve problems.

## Information for Parents/Carers

## Mathematics Targets

## Exceeding Year 6 Expectations

I can compare, order and convert between fractions, decimals and percentages, for example, in contexts related to science, history or geography learning
I can move beyond squared and cubed numbers to calculate problems such as $X \times 10^{n}$ where $n$ is positive.
I can use =, $\neq,<,>, \leq$, $\geq$ correctly.
I can multiply all integers, (using efficient written methods) including mixed numbers and negative numbers.

I can recognise an arithmetic progression and find the nth term.
I can use a formula for measuring the area of a shape, such as a rectangle and triangle to work out the area of an irregular shape in the school environment
I can use the four operations with mass, length, time, money and other measures, including the use of decimal quantities.
I can create a scaled model of an historical or geographical structure showing an acceptable degree of accuracy using known measurements.
I can calculate the costs and time involved of a visit to a destination in another part of the world relating to on-going learning in history or geography.
I can collect my own data on a personal project and present information in formats of my choosing, using charts, graphs and tables, and answer specific questions related to my research.

