



Year 1 Maths Ladder

Number and Place Value

I can read and write numbers from 1 – 20 in digits and words.	
I can find 1 more and 1 less than a given number.	
I can represent numbers using objects/pictorial (to at least 30).	
I can count in multiples of 2, 5 and 10.	
I can count, read and write (in numerals) numbers to 100.	
I can count to and across 100 forwards and backwards.	
I can use the language of more than, less than and equal to.	
I can use the language of most and least .	

Addition and Subtraction

I can solve 1 step problems using subtraction.	
I can show that subtraction can't be done in any order.	
I can add and subtract 1 digit numbers to and from 20 including 0.	
I can show and use addition and subtraction facts to 20.	
I can recall addition and subtraction facts to 10 fluently.	
I can read, write and understand calculations with +, - and = signs.	

Multiplication and Division

I can count in 2s, 5s and 10s.	
I can solve simple division problems using concrete objects/pictorial.	
I can solve problems involving multiplication using arrays.	
I can complete simple number patterns.	
I can solve simple multiplication and division problems.	
I can share and group small amounts.	
I can double and halve single digit numbers.	

Fractions

I can find and name a half and a quarter of a quantity.	
I can find and name a half and quarter of an object.	
I can find and name a half and a quarter of a shape.	
I can show that a half is one of two equal parts.	
I can explain that a fraction is part of a whole.	

Measures

I can tell the time to the hour and to half past and draw hands on a clock to show this.	
I know and use date/ time words such as: days, weeks, months, and years.	
I can sequence events in chronological order using good language [for example, before and after, next, first, today, yesterday, tomorrow, morning, afternoon and evening].	
I can solve problems involving time using good language such as [for example, quicker, slower, earlier, later].	
I can recognise and know the value of coins and notes.	
I am beginning to measure and record capacity and volume using good language [for example, full/empty, more than, less than, half, half full, quarter].	
I am beginning to measure and record mass / weight using good language [for example, heavy/light, heavier than, lighter than].	
I am beginning to measure and record length and height using good language [for example, long/short, longer/shorter, tall/short, double/half].	
I can compare, describe & solve practical problems involving measures in length, mass and capacity.	

Geometry

I can describe position, direction and movement, including whole, half, quarter and three-quarter turns.	
I can recognise and name 2D shapes.	
I can recognise and name 3D shapes.	



Year 2 Maths Ladder

Number and Place Value

I can use place value and number facts to solve problems.	
I can read, write numbers to 100 as numerals.	
I can read and write numbers to at least 100 in words.	
I can use the sign $<$, $>$ and $=$	
I can compare and order numbers 0 -100.	
I can partition two-digit numbers flexibly using tens and ones. (May include apparatus).	
I can use estimation to check my answers to a calculation are reasonable.	
I can identify, represent and estimate numbers including a number line.	
I know the place value of each digit in a 2 digit numbers (tens and ones).	
I can count forwards and backwards in tens from any number.	
I can count from 0 in steps of 2, 3, 5 and 10.	

Addition and Subtraction

I can recognise and use inverse relationships between $+$ and $-$.	
I can solve missing number problems and check using the inverse.	
I can show that addition can be done in any order.	
I can show that subtraction can't be done in any order.	
I can add and subtract 2-digit numbers and tens.	
I can add and subtract $10 + 10$.	
I can add $10 + 10 + 10$	
I can add 2 two digit numbers within 100 mentally.	
I can recall and use addition and subtraction facts to 20 fluently.	
I can use number facts to 100.	
I can apply written strategies to problems.	
I can subtract mentally a two digit number from another 2 digit number when there is no regrouping required.	
I can solve simple one step problems with $+$ and $-$.	

Multiplication and Division

I can solve one step problems involving multiplication and division.	
I know that $\div$ of 1 number by another cannot be done in any order.	
I can show that multiplication of 2 numbers can be done in any order.	
I can derive and use halves and doubles of 2 digit numbers.	
I can recognise and use inverse relationships between $\times$ and $\div$.	
I can calculate mathematical statements for $\times$ and $\div$ (within the times tables).	
I can use repeated addition to calculate ($\times$ and $\div$).	
I can use an array to calculate ($\times$ and $\div$).	
I can recall and use $\times$ and $\div$ facts for the 10 $\times$, 2$\times$ and 5 $\times$ tables.	
I can recognise odd and even numbers.	
I can use my 2, 5 and 10 times table to solve problems demonstrating an understanding of commutativity as necessary.	

Fractions

I can identify $\frac{1}{3}$, $\frac{1}{4}$, $\frac{1}{2}$, $\frac{2}{4}$, $\frac{3}{4}$ and know all parts must be equal parts of a whole.	
I can recognise equivalence e.g $\frac{2}{4} = \frac{1}{2}$.	
I can recognise, find, name and write fractions of a quantity.	
I can find, name and write fractions of a set of objects, shape and length.	
I can begin to recognise the terms numerator and denominator.	

Measures

I can tell and write the time to the nearest 5 minutes including quarter past/to the hour and draw hands on a clock face to show this. (15 mins ITAF)	
I know the number of minutes in an hour and the number of hours in a day.	
I can compare and sequence intervals of time.	
I can solve simple money problems in a practical context including giving change.	
I can recognise and use symbols for £ and p.	
I can use different coins to make the same amount.	
I can find different combinations of coins that equal the same amounts of money.	
I can read relevant scales to the nearest numbered unit (1s, 2s, 5s, 10s).	
I can compare and order length, mass, volume and capacity using < > and =.	
I can choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm); mass (kg/g); temperature (°C); capacity (litres/ml) to the nearest appropriate unit, using rulers, scales, thermometers and measuring vessels	

Geometry

I can use maths vocab to describe position, direction and movement.	
I can use maths vocabulary including clockwise and anti-clockwise.	
I can order and arrange combinations of objects in patterns and sequences.	
I can compare and sort common 2D and 3D shapes.	
I can identify 2D shapes on the surface of 3D shapes.	
I can identify and describe properties of 2D and 3D shapes.	
I can identify lines of symmetry in 2D Shapes.	

Statistics

I can ask and answer questions when comparing data, totalling and sorting categories by quantity.	
I can construct and interpret simple tables, block graphs, tally charts and pictograms.	



Year 3 Maths Ladder

Number and Place Value

I can read and write numerals and words up to 1000 as numerals.	
I can identify, represent and estimate numbers in different contexts.	
I can compare and order numbers 0 -1000.	
I can count from 0 in multiples of 50, 100, 4 and 8	
I know the place value of each digit in a 3 digit numbers (hundreds, tens and ones).	
I can find 10 and 100 more or less than any given number.	

Addition and Subtraction

I can estimate the answer to a calculation.	
I can use the inverse to check.	
I can solve missing number problems for addition and subtraction.	
I can add and subtract numbers with up to 3 digits using a written formal method (column addition).	
I can add and subtract numbers mentally (3 digit number and hundreds) (3 digit number and tens) (3 digit number and ones).	

Multiplication and Division

I can solve missing number problems involving multiplication and division	
I can multiply a 2 digit by a 1 digit number mentally then progressing to formal methods	
I can divide a 2 digit by a 1 digit number mentally and using practical resources	
I can calculate mathematical statements for x and $\div$ facts I know.	
I can recall and use x and $\div$ facts for the 3,4 and 8 times tables.	

Fractions

I can solve problems involving fractions.	
I can compare and order fractions with the same denominator.	
I can add and subtract fractions with the same denominator within a whole.	
I can recognise and show using diagrams equivalent fractions with small denominators	
I can recognise and use fractions as numbers $\frac{1}{4} + \frac{3}{4} = 1$	
I can recognise, find, write fractions for a group of objects (unit & non-unit).	
I know that tenths arise from dividing an object into ten equal parts.	
I can count up and down in tenths.	

Measures

I can compare durations of events.	
I know the number of seconds in a minute, number of days in a month, months of the year, days of the week and how many days in the year and leap year.	
I can recognise and write Roman Numerals to 12.	
I can tell the time from an analogue clock and a 24 hour digital clock.	
I can use vocabulary such as; o'clock, a.m./p.m., morning, afternoon, noon and midnight.	
I can add and subtract amounts of money to give change using £ and p.	
I can measure the perimeter of a simple 2D shape.	
I can measure, compare add and subtract volume and capacity (ml / l).	
I can measure, compare, add and subtract mass (kg / g).	
I can measure, compare, add and subtract length (m, cm and mm).	

Geometry

I can identify lines as horizontal, vertical, perpendicular and parallel.	
I can say if angles are greater or less than a right angle.	
I know that 2 right angles make a half turn, 3 make a $\frac{3}{4}$ turn and 4 make a full turn.	
I can identify right angles.	
I can recognise angles as a property of shapes or a description of a turn.	
I can recognise and describe 3D shapes.	
I can recognise and describe 3D shapes in different orientations.	
I can describe the position on a square grid labelled with letters and numbers.	
I can make 3d shapes using modelling materials and recognise 3D shapes in different orientations and describe them.	
I can draw accurately 2D shapes.	

Statistics

I can interpret and present (draw) data using bar charts, pictograms and tables	
I can solve one-step and two step questions using information presented in scaled bar charts and pictograms and tables	



Year 4 Maths Ladder

Number and Place Value

I can read Roman Numerals to 100 (I to C) and understand how numerals changed over time to include 0 and place value.	
I can solve number and practical problems using place value in increasingly large positive numbers (up to 10.000).	
I can round any number to the nearest 10, 100 and 1000	
I can identify, represent and estimate numbers using different representations	
I can compare and order numbers beyond 1000.	
I can count backwards through zero to include negative numbers.	
I can recognise the place value of each digit in a 4 digit numbers (thousands, hundreds, tens and ones).	
I can partition a 4 digit numbers flexibly	
I can find 1000 more or less than any given number.	

Addition and Subtraction

I can solve subtraction and addition, 2 step problems, deciding methods to use.	
I can use the inverses and estimation to check answers to calculations.	
I can add numbers with up to 4 digits using a written method (column addition).	
I can subtract up to 4 digits using a written method (column subtraction).	

Multiplication and Division

I can multiply 2 and 3 digit numbers by a 1 digit number	
I can recognise and use factor pairs and commutativity in mental calculation.	
I can multiply 3 numbers together	
I can use place value, known and derived number facts to divide and multiply mentally.	
I can divide numbers up to 3 digits by a one digit number using an efficient method e.g. flexible partition	
I can recall $\times$ and $\div$ facts for all tables (12x12).	
I can solve problems involving $\times$ and $+$, including using distributive law to multiply two digit numbers by a one digit number.	
I can solve integer scaling problems and harder correspondence problems such as n objects are connected to m objects.	
To $\times$ and $\div$ mentally by 1 or 0	

Fractions

I can solve simple measure and money problems involving fraction and 2 decimal places .	
I can round decimals with 1 decimal place to the nearest whole number.	
I can find the effect of dividing a number by 10 and 100 and identify the value of the digits in the answer.	
I can recognise and write decimal equivalents to $\frac{1}{4}$, $\frac{1}{2}$ and $\frac{3}{4}$.	
I can recognise and write decimal equivalents to any number of 10ths or 100ths.	
I can solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number.	
I can add and subtract fractions with the same denominator.	
I can recognise and show equivalent fractions, using diagrams.	
I can count up and down in 100ths.	
I can recognise how 100ths have arisen by dividing	

Measures

I can solve problems converting hours to minutes, minutes to seconds, years to months, weeks to days.	
I can read and write time on an analogue clock.	
I can read and write time on a digital clock (12 and 24 hour).	
I can convert time between analogue and digital clocks.	
I can estimate and compare using different measures including £ and p.	
I can calculate using different measures including £ and p.	
I can find the area of rectilinear shapes (including squares) in cm and m.	
I can find the area of rectilinear shapes by counting squares.	
I can measure and calculate the perimeter of rectilinear figure in cm and m, including squares	
I can convert between different units of measure (e.g. Km to m).	

Geometry

I can plot specific points and draw sides to complete a polygon.	
I can describe movements between positions as translations of a given unit to the left/right up/down	
I can describe position on a 2D grid as co-ordinates in the first quadrant.	
I can complete a simple symmetric figure with a specific line of symmetry.	
I can identify lines of symmetry in 2D shapes in different orientations.	
I can compare and order angles up to 2 right angles by size.	
I can identify acute and obtuse angles.	
I can compare and classify geometric shapes based on properties and size (including quadrilaterals and triangles).	

Statistics

I can solve difference, sum and comparison problems using information presented in charts.	
I can interpret and present data using time graphs.	
I can present (draw) and interpret data using time graphs.	
I can present (draw) interpret data using bar charts.	

