

# Maths Targets



	Target	Year 1	Pupil	Teacher Date
✓ <b>Number Operations</b>		I read and write numbers from 1 to 20 in numbers and words		
		I know and can use the maths symbols + - and = in a number sentence.		
		I know my number bond facts to 20 - such as $1+5 = 6$ and $5 = 6 - 1$ .		
		I add and subtract numbers up to 20 - such as $5+5$ or $12-8$ .		
		I can solve some number problems such as $7 = ? - 9$ .		
		I answer maths multiplication or division problems with help from an adult and using objects to see what the problem means.		
		I can count up and down from 0 to 100 and more.		
		I can count, read and write numbers up to 100.		
		I can count in 2 or 5 or 10.		
		When you show me a number, I can tell you what is one more and one less.		
		I can find numbers on a number line when I am solving problems with questions using equal to, more than, less than, most and least.		

	Target	Year 1	Pupil	Teacher Date
<b>Fractions, Measures</b>		I know that coins have different values - such as 2p, 5p, 10p and 50p.		
		I use special time words such as before and after, next, first, today, yesterday, tomorrow, morning, afternoon and evening.		
		I can tell you what halving and doubling are.		
		I can tell you what happens if you add two equal halves of a shape together.		
		I can tell you what happens if you add four equal quarters of a shape together.		
		I can measure lengths and heights and write my results in centimetres and metres.		
		I can measure mass and weights and write my results in grams and kilograms		
		I can measure capacity and volume and write my results in millilitres, litres and cubes.		
		I can measure how long things take and write my results in minutes, seconds and hours.		
		I can tell you the difference between days, months and years in the date.		
		I can tell the time and draw hands on a clock for to the hour and half past the hour times..		
		I can identify cuboids, cubes, pyramids and spheres.		
		I can describe things which are either top, bottom, middle, next to and directions.		
		I can describe things which have made half, quarter and three-quarter turns.		

# Maths Targets



	Target	Year 2	Pupil	Teacher Date
<b>Number Operations</b>	✓	I can count forward and backward in steps of 2, 3, and 5 from 0, and make jumps in tens from any number		
		I know what each digit means in two-digit numbers such as 24.		
		I can order numbers up to 100 and tell you which numbers are bigger or smaller.		
		I use the greater than, less than and equals signs in maths and know what they mean.		
		I can read and write numbers to 100 in digits and words.		
		I solve problems using number facts such as $18+2=20$ and what I know about the value of digits in a number.		
		I answer addition and subtraction maths problems using objects to help me work it out.		
		I can solve addition and subtraction problems and work out how I answer it on paper or show you how I did it in my head by explaining step by step		
		I answer problems with addition and subtraction using my number facts to 20 and other number facts up to 100.		
		I add and subtract two and three-digit numbers using objects to help me		
	I can check my answers or solve missing number problems by doing an inverse check.			

	Target	Year 2	Pupil	Teacher Date
		I know my 2 and 5 and 10 times tables by heart and can tell whether a number is odd or even.		
		I can solve multiplication and division problems using times table facts and objects or pictures to help me.		
<b>Fractions, Measures</b>		I can order combinations of mathematical objects in patterns and sequences.		
		I can name and describe the properties of some 2-D and 3D shapes and right angles.		
		I can tell you which 2-D shapes appear as the faces on 3-D shapes, such as triangles on a pyramid.		
		I can compare 2-D and 3-D shapes with everyday objects around me.		
		I can describe my position, direction and movement such as turns, quarter, half and three-quarter turns in clockwise and anti-clockwise directions.		
		I work on sorting objects and can answer questions about the groups of objects I have sorted.		
		I can make different amounts of money using the correct coins.		
		I can make my own symmetrical shapes by drawing lines using a ruler.		
		I can make a block diagram and ask and answer questions about it.		
<b>Stats</b>		I can read and construct picture graphs, tally charts and tables.		

# Maths Targets



	Target	Year 3	Pupil	Teacher Date
<b>Number Operations</b>	✓	I can add and subtract numbers in my head, including questions such as $432 - 7$ ; $432 - 70$ ; $432 - 300$ .		
		I can use written methods to add or subtract two three-digit numbers.		
		I can estimate the answer to a question before I work it out and then use inverse operations to check the answer when I have finished.		
		I solve problems such as missing numbers (for example, $452 - ? = 122$ ) using my knowledge of number facts and methods of addition and subtraction.		
		I know my 3, 4 and 8 times tables.		
		I can find 10 or 100 more or less than a given number.		
		I know what each digit means in Hundred Tens and Unit numbers such as 204.		
		I can compare and order numbers up to 1000.		
		I read and write numbers up to 1000 in numerals and in words.		
		I can answer multiplication and division questions such as $16 \times 5$ or 45 divided by 9.		
		I can solve more complex problems and missing number questions involving multiplication and division.		
		I can count from 0 in steps of 4, 8, 50 and 100.		
		I can solve number problems, working with numbers up to 1000 and in different units of measurement.		

	Target	Year 3	Pupil	Teacher Date
<b>Fractions, Shapes/ &amp; Measures</b>		I draw 2-D shapes and make 3-D shapes using modelling materials.		
		I recognise and can describe 3-D shapes even when they have been turned about in different ways.		
		I know what a right angle is and I know that two right angles make a half-turn, three make three quarters of a turn and four right angles make a complete turn.		
		I can tell whether an angle is greater than or less than a right angle.		
		I know when a line is horizontal or vertical or when two lines are perpendicular or parallel.		
		I know that tenths can be found by dividing an object or shape into ten equal parts.		
		I know how to find fractions of a number or shape - such as $\frac{3}{5}$ , $\frac{1}{4}$ or $\frac{4}{6}$		
		I can show that some fractions have the same value - such as $\frac{1}{2}$ , $\frac{3}{6}$ and $\frac{5}{10}$ or $\frac{1}{3}$ and $\frac{3}{9}$ .		
		I can add and subtract fractions with the same denominator [for example, $\frac{5}{7} + \frac{1}{7} = \frac{6}{7}$ ].		
		I can compare and order unit fractions, and fractions with the same denominators.		
		I solve problems that involve finding, ordering or comparing fractions.		
		I can measure and compare in these units: lengths (m/cm/mm), weight (kg/g) and capacity (l/ml).		
		I can measure the perimeter of a 2-D shape such as a square or triangle.		
		I can work on money problems, adding and subtracting amounts of money and working out how much change is left. I use both £ and p in my problems.		
	<b>Stats.</b>		I can tell and write the time from a clock with numbers or Roman numerals or using 12 and 24 hour clocks.	
		I can measure and record time passing in seconds, minutes and hours.		
		I know and use vocabulary such as o'clock, a.m./p.m., morning, afternoon, noon and midnight in my maths work.		
		I know the number of seconds in a minute and the number of days in each month, year and leap year.		
		I can answer questions about bar charts, pictograms and tables and make my own bar charts, pictograms and tables.		
	I can answer maths problems such as 'How many more?' and 'How many fewer?' by finding the information in bar charts, pictograms and tables.			

# Maths Targets



Targets		Year 4	Pupil	Teacher Date
<b>Number Operations</b>	✓	I can add and subtract numbers with up to 4 digits using written methods (for example, using column addition and subtraction).		
		I can estimate an answer and check my answer using inverse operations.		
		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 know all my times table up to the 12 times tables.		
		I know what the outcome is when I multiply and divide a number by 1 or by zero.		
		I can multiply three numbers together, such as $3 \times 6 \times 9$ .		
		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 can multiply a two-digit or a three-digit number by a one-digit number using written methods.		
		I can solve maths problems such as - how many different outfits can I make from 3 hats and 4 coats.		
		I can count in multiples of 6, 7, 9, 25 and 1000 and I can find 1000 more or less than a given number		
		I can count backwards to negative numbers below zero.		
		I know what each digit means in Thousands, Hundreds Tens and Unit numbers such as 2024.		
		I can order and compare numbers above 1000 and I can round a number to the nearest 10, 100 or 1000.		
		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 solve number and practical problems that involve rounding, ordering and exploring negative numbers and with increasingly large positive numbers.		
		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.		

Targets	Year 4	Pupil	Teacher Date
	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.		
<b>Fractions/Measures/Stats.</b>	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 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 work out the fractions of numbers such as $4/5$ of 25 or $7/10$ of 700 and I can add and subtract fractions with the same denominator.		
	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 know what the decimal equivalents are for $1/4$ , $1/2$ and $3/4$ .		
	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 round decimals with one decimal place to the nearest whole number.		
	I can compare numbers such as 0.26 and 0.56 to say which is bigger or lower.		
	I can solve measure and money problems involving fractions and decimals to two decimal places.		
	I can convert one unit of measurement to another, such as kilometre to metre, hour to minute and cm to mm.		
	I can measure and calculate the perimeter of a rectangle (including a square).		
	I can find the area of a rectangular shape by counting the number of squares the shape takes up.		
	I can estimate and compare the measurements of a range of measures (such as cm, km, g, litres) and money.		
	I can read, write and convert time between clocks with hands (analogue clocks) and digital 12- and 24-hour clocks.		
	I can convert hours to minutes, minutes to seconds, years to months and weeks to days.		
	I can find the coordinates of a point on a grid.		
	I can move (translate) a point on a grid by a given set of jumps either up/down or left/right		
	I can plot points using coordinates and join up the points to create a shape.		
	I can group 2-D shapes based on their properties (such as the number of sides) and sizes.		
	I can find acute and obtuse angles and order a set of given angles by size.		
	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.		
	I can take continuous and discrete data and create a bar chart or time graph.		
	I can solve comparison, sum and difference problems using information in bar charts, pictograms, tables and other graphs.		

# Maths Targets



## Year 5

Pupil  
Teacher  
Date

### Number Operations

✓	I can add and subtract whole numbers with more than 4 digits using written methods such as column addition and subtraction.		
	I can add and subtract larger numbers in my head and I round numbers to check the accuracy of my solution.		
	I can solve addition and subtraction multi-step problems, deciding which operations and methods to use and why.		
	I can identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers.		
	I know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers.		
	I know whether a number up to 100 is prime and recall prime numbers up to 19.		
	I can multiply 4 digit numbers by a one- or two-digit number using a written method, including long multiplication for two-digit numbers.		
	I multiply and divide numbers mentally drawing upon my times table knowledge and other number facts.		
	I can divide 4 digit numbers by a one-digit number using the written method of short division and find the remainder.		
	I can multiply and divide whole numbers and those involving decimals by 10, 100 and 1000.		
	I know what square numbers and cube numbers are, including the notation for squared (2) and cubed (3).		
	I can solve multiplication and division problems using my knowledge of factors and multiples, squares and cubes.		
	I can solve more difficult problems involving addition, subtraction, multiplication and division and a combination of these.		
	I can solve problems including scaling by simple fractions and problems involving simple rates		
	I can read, write, order and compare numbers to at least 1 000 000 and know the value of each digit.		
	I count forwards or backwards in steps 10, 100, 1000, 10000 or 100000 for any given number up to 1000000.		
	I can use negative numbers in my work and can count backwards and forwards to and from negative numbers.		
	I can round any number up to 1 000 000 to the nearest 10, 100, 1000, 10 000 and 100 000.		
	I can solve number problems and practical problems that involve numbers up to 1000000, negative numbers, rounding or jumping in steps.		
	I can read Roman numerals to 1000 (M) and recognise years written in Roman numerals.		

## Year 5

Pupil  
Teacher  
Date

### Fractions/Measures/Stats.

	I can compare and order fractions whose denominators are all multiples of the same number.		
	I can name and write equivalent fractions of a given fraction, and show these in a drawing (including tenths and hundredths).		
	I know what mixed numbers and improper fractions are and I can convert from one to the other [for example, $2/5 + 4/5 = 6/5 = 1 \frac{1}{5}$ ].		
	I can add and subtract fractions with the same denominator and denominators that are multiples of the same number.		
	I can read and write decimal numbers as fractions		
	I know what thousandths are and how to use them with tenths, hundredths and decimals.		
	I can round decimals with two decimal places to the nearest whole number and to one decimal place.		
	I can read, write, order and compare numbers with up to three decimal places.		
	I can solve problems involving numbers with up to three decimal places.		
	I know what the per cent symbol is (%) and understand that per cent relates to 'number of parts per hundred', and write percentages as a fraction with denominator 100, and as a decimal.		
	I work on problems which require knowing percentage and decimal equivalents of $1/2$ , $1/4$ , $1/5$ , $2/5$ , $4/5$ and those fractions with a denominator of a multiple of 10 or 25.		
	I can convert between different units of metric measure (for example, kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre).		
	I can change metric units to become imperial units such as inches, pounds and pints.		
	I can calculate the perimeter and the area of rectangles in (cm <sup>2</sup> ) and (m <sup>2</sup> ) and estimate the area of irregular shapes.		
	I can estimate volume and capacity and I can convert between the units of time		
	I can solve more difficult problems which involve units of measurement, decimal numbers and scales.		
	I can identify 3-D shapes, including cubes and other cuboids, from 2-D drawings and I can reflect or translate a shape on a grid.		
	<i>I know that angles are measured in degrees and I can estimate and compare acute, obtuse and reflex angles.</i>		
	<i>I can draw a given angle and then measure them in degrees (°).</i>		
	<i>I know one whole turn - or a set of angles all around a point - measure a total of 360°.</i>		
	<i>I know that a straight line - or angles that add up to a straight line - measure 180°. I can identify multiples of 90° (right angles).</i>		
	<i>I can find the missing lengths and angles of a rectangle.</i>		
	<i>I know regular shapes have equal sides and angles and irregular shapes do not have equal sides and angles.</i>		
	<i>I can solve problems using information presented in line graphs.</i>		
	<i>I can find the information I need from a timetable or large table of data.</i>		

# Maths Targets



I can	Year 6 Objectives	Pupil	Teacher Date
+ x - ÷	Add and subtract using negative numbers.		
	Perform mental calculations, including with mixed operations and large numbers.		
	Divide numbers up to 4-digits by a 2-digit whole number up to 20 using the efficient written method and interpret remainders as whole number remainders, fractions or by rounding, as appropriate for the context.		
	Solve multi-step problems involving the 4 rules and use estimations to check answers to calculations.		
	Use my knowledge of the order of operations to carry out calculations involving the 4 operations.		
Fractions, Decimals and %	Add and subtract fractions with different denominators and mixed numbers using the concept of equivalent fractions.		
	Multiply simple pairs of proper fractions writing the answer in its simplest form (e.g. $\frac{1}{4} \times \frac{1}{2}$ )		
	Divide proper fractions by whole numbers (e.g. $\frac{1}{3} \div 2 = \frac{1}{6}$ ).		
	Multiply 1-digit numbers with up to 2 decimal places by whole numbers.		
	Use written division methods in cases where the answer has up to 2 decimal places.		
	Solve problems which require answers to be rounded to specified degrees of accuracy.		
	Find a percentage of any given number.		

I can	Year 6 Objectives	Pupil	Teacher Date
Ratio and Proportion	Solve problems involving the relative sizes of 2 quantities.		
	Solve problems involving unequal sharing and grouping e.g. $\frac{3}{5}$ of the class are boys etc.		
	Solve problems involving similar shapes where the scale factor is known or can be found.		
	Solve simple ratio and proportion problems.		
	Reduce a given ratio to its lowest terms.		
Algebra	Find pairs of numbers that satisfy number sentences involving two unknowns e.g. what is $2a+3b$ if $a=2$ and $b=3$ .		
	Work out all possibilities of combinations of two variables.		
Measures	Recognise that shapes with the same areas can have different perimeters and vice versa.		
	Calculate the area of parallelograms and triangles and be able to use the correct formulae.		
	Calculate the volume of cubes and cuboids using centimetre cubed and cubic metres and extending to other units, such as mm cubed and km cubed.		
Shape	Classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals and regular polygons.		
	Find unknown angles where they meet at a point and are on a straight line and are vertically opposite.		
	Find missing angles in a parallelogram, rhombus and trapezium by working out diagonally opposite angles.		
	Draw and translate simple shapes on the co-ordinate plane, reflect them in the axes and rotate around a point.		
Data	Interpret and construct pie charts and use these to solve problems using my knowledge of angles, fractions and percentages.		
	Interpret and construct line graphs and use these to solve problems.		