

National Curriculum standards for maths Guidance

These documents refer to each year groups programme of study in line with the National Curriculum 2014. Each set of standards is grouped into the different areas of the mathematics curriculum. These documents will be used as a target setting and evidence base on a weekly basis. They will inform the children of their next steps and inform the teachers of where each child is against their programme of study. These standards may need adapting when discussing targets with the children directly due to the technical language used.

Summative Assessment: These standards will be used in all children's maths books. Each strand is assessed over the year and progress towards that standards is recorded in the three end columns. The strand will be ticked ones a child is secure in that strand. The ticks will indicate when the child has achieved the strand:

Autumn term: Black pen Spring term: green pen Summer term: red pen

Once the strand has been achieved three times the strand can be highlighted in green to show the child has successfully masters the skill.

In standards 1 and 2 many of the standards relate to pictorial and object based learning. Evidence may or may not be present in books to support these strands but photographic evidence should be used where possible across the school to support judgements.

Formative Assessment: During assessment week children will complete the tests relevant for their band. These tests can be used as evidence against the statements

Note: these statements do not include the examples given for some of the strands in the NC or Target Tracker documents. Please refer to these for examples of what the statement may look like in practice

Year 1 Maths Expectation

	Number and place value			
1	Count to and across 100 , forwards and backwards, beginning with 0 or 1 , or from any given number			
2	Count and read numbers to 100 in numerals			<u> </u>
3	Count and write numbers to 100 in numerals			<u> </u>
4	Count in multiples of twos, fives and tens from 0			
5	Identify one more and one less of a given number			
6	Identify and represent numbers using objects and pictorial representations including the number line, and use the			
	language equal to, more than, less than (fewer), most, least			
7	Read and write numbers from 1 to 20 in numerals			
8	Read and write numbers from 1 to 20 in words			
9	Use counting strategies to solve problems			
10	Partition and combine numbers using apparatus if required			
	Addition and subtraction			
11	Read and interpret mathematical statements involving addition (+), subtraction (-) and equals (=) signs			
12	Write mathematical statement involving addition (+), subtraction (-) and equals (=) signs			
13	Represent and use number bonds within 20			
14	Represent and use subtraction facts within 20			
15	Add one-digit and two-digit numbers to 20, including zero			
16	Subtract one-digit and two-digit numbers to 20, including zero			
17	Solve one step problems that involve addition, subtraction and missing numbers using concrete objects and pictorial			
	representations			
	Multiplication and division			
18	Solve one-step problems involving multiplication by calculating the answer using concrete objects, pictorial			
	representation and arrays with the support of the teacher			
19	Solve one-step problems involving division by calculating the answer using concrete objects , pictorial representations			
	and arrays with the support of the teacher			l
20	Recognise, find and name a half as one of two equal parts of an object, shape or quantity			
21	Recognise, find and name a half as one of two equal parts of an object, shape or quantity			
	Measures			
22	Compare, describe and solve practical problems for lengths and heights			
23	Compare, describe and solve practical problems for mass/weight			
24	Compare, describe and solve practical problems for capacity and volume			
25	Compare, describe and solve practical problems for time			
26	Measure and begin to record mass/weight			
27	Measure and begin to record capacity and volume	+		
28	Recognise and know the value of different denominations of coins and notes	+		
29	Sequence events in chronological order using language			
30	Recognise and use language relating to dates, including days of the week, weeks, months and years	+	† †	
31	Tell the time to the hour and half past the hour and draw the hands on a face clock t show these times	+	† †	
32	Measure and begin to record length/height	+	+ +	
32	Geometry: properties of shapes			
33	Recognise and name common 2D shapes			
34	Recognise and name common 3D shapes	+	+	
35	Describe position, direction and movement, including whole, half, quarter and three quarter turrns	+	+	
33	Describe position, direction and movement, including whole, half, quarter and three quarter turns			

TT step	В	B+	w	W+	S	S+
Points achieved	5-9	10-14	15-19	20-25	26-31	32-35

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Identify and describe the properties of 3D shapes, including the number of edges, vertices and faces		· · · · · · · · · · · · · · · · · · ·		
47 Identify 2D shapes on the surface of 3D shapes and everyday objects describing similarities and differences 48 Compare and sort 2D and 3D shapes and everyday objects describing similarities and differences 49 Order and arrange combinations of mathematical objects in patterns and sequences 50 Use mathematical language to describe position, direction and movement, Inc. movement in a straight line and distinguish between rotation as a turn and in terms of right angles for quarter, half etc. clockwise and anticlockwise 51 Interpret and construct simple pictograms, tally charts, block diagrams and simple tables 52 Ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity				
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TT step	В	B+	W	W+	S	S+
Points achieved	8-14	15-24	25-32	33-41	42-47	48-53

Number and place value Count from 0 in multiple; of 4, 8, 50 and 100; finding 10 or 100 more or less than a given number Count from 0 in multiple; of 4, 8, 50 and 100; finding 10 or 100 more or less than a given number Count from 0 in multiple; of 4, 8, 50 and 100; finding 10 or 100 more or less than a given number Count from 0 in multiple; of 4, 8, 50 and 100; finding 10 or 100 more or less than a given number Count from 0 in multiple; of 4, 50 and 10 in multiple; of 5, 50 and 10 in multiple;					
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Compare and order numbers up to 1000	1	count from 0 in multiples of 4, 8, 50 and 100; finding 10 or 100 more or less than a given number			
Identify, represent and estimate numbers using different representations	2	recognise the place value of each digit in a three-digit number (hundreds, tens, ones)			
read and write numbers to at least 1000 in numerals and in words Solve number problems and practical problems involving these ideas Addition and subtract numbers mentally, including: add and subtract number and ones a three-digit number and ones at three-digit number and ones at three-digit number and ones add and subtract numbers with up to three digits, using the efficient written methods of columnar addition and subtraction estimate the answer to a calculation and use inverse operations to check answers solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction Multiplication and division recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables recal and use multiplication and division facts for the 3, 4 and 8 multiplication tables and calculate methematical statements for multiplication and division using the multiplication tables when a calculate methematical statements for multiplication and division sign for two digit numbers times one-digit numbers, using mental and progressing to efficient written methods solve problems, including missing number problems, involving multiplication and division, including integer scaling problems and correspondence problems in which in objects are connected to mobjects recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators ceroginise and show, using diagrams, equivalent fractions with small denominators recognise and show, using diagrams, equivalent fractions with small denominators recognise and show, using diagrams, equivalent fractions with small denominators recognise and show, using diagrams, equivalent fractions with small denominators add and subtract fractions with the same denominator within one whole (e.g. 5/7 + 1/7 = 6/7) add and subtract fractions with the same denominator within one whole (e.g. 5/7 + 1/7 = 6/7) add and subtract mounts of money to give change, using bo	3	compare and order numbers up to 1000			
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Statistics 35 interpret and present data using bar charts, pictograms and tables 36 solve one-step and two-step questions such as 'How many more?' and 'How many fewer?' using information	24			+	+
interpret and present data using bar charts, pictograms and tables solve one-step and two-step questions such as 'How many more?' and 'How many fewer?' using information	34				
36 solve one-step and two-step questions such as 'How many more?' and 'How many fewer?' using information	25				
				<u> </u>	1
presented in scaled bar charts and pictograms and tables.	36		l		
		presented in scaled bar charts and pictograms and tables.			

TT step	В	B+	W	W+	S	S+
Points achieved	5-9	10-14	15-19	20-25	26-31	32-36

Year 4 Maths Expectation

	real 4 Maths Expectation			
	Number, place value and rounding			
1	count in multiples of 6, 7, 9, 25 and 1000			
2	find 1000 more or less than a given number			
3	count backwards through zero to include negative numbers	<u> </u>		
4	recognise the place value of each digit in a four-digit number (thousands, hundreds, tens, and ones)	<u> </u>		
5	order and compare numbers beyond 1000			
6	identify, represent and estimate numbers using different representations			
7	round any number to the nearest 10, 100 or 1000	<u> </u>		
8	solve number and practical problems that involve all of the above and with increasingly large positive numbers	l		
9	read Roman numerals to 100 (I to C) and understand how, over time, the numeral system changed to include the			
	concept of zero and place value.	ł		
	Addition and subtraction			
10	add and subtract numbers with up to 4 digits using the efficient written methods of columnar addition and subtraction			
	where appropriate	ĺ		
11	estimate and use inverse operations to check answers to a calculation			
12	solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why			
	Multiplication and division			
13	recall multiplication and division facts for multiplication tables up to 12 × 12			
14	use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by		1	
	1; multiplying together three numbers	l		
15	recognise and use factor pairs and commutativity in mental calculations			
16	multiply two-digit and three-digit numbers by a one-digit number using formal written layout		1	
17	solve problems involving multiplying and adding, including using the distributive law and harder multiplication		1	
	problems such as which n objects are connected to m objects.	ł		
	Fractions			
19	count up and down in hundredths; recognise that hundredths arise when dividing an object by a hundred and dividing			
	tenths by ten	ł		
20	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	ł		
21	identify, name and write equivalent fractions of a given fraction, including tenths and hundredths			
22	add and subtract fractions with the same denominator			
23	Decimals and fractions			
24	recognise and write decimal equivalents of any number of tenths or hundredths			
25	recognise and write decimal equivalents of any number of tenths of number of			
26	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			
20	units, tenths and hundredths	ł		
27	round decimals with one decimal place to the nearest whole number			
28	compare numbers with the same number of decimal places up to two decimal places	 		
29	solve simple measure and money problems involving fractions and decimals to two decimal places	 		
29	Measures			
20				
30	convert between different units of measure (e.g. kilometre to metre; hour to minute) measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres	 	+	
31 32			+	
	estimate, compare and calculate different measures, including money in pounds and pence	 	+	
33	find the area of rectilinear shapes by counting	 	+	
34	read, write and convert time between analogue and digital 12 and 24-hour clocks	 	+	<u> </u>
35	solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days			
26	Geometry: properties of shapes			
36	compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes	 	-	<u> </u>
37	identify acute and obtuse angles and compare and order angles up to two right angles by size	 		ļ
38	identify lines of symmetry in 2-D shapes presented in different orientations		1	ļ
39	complete a simple symmetric figure with respect to a specific line of symmetry	<u> </u>	1	ļ
	Geometry: position, direction, motion	<u> </u>		ļ
40	describe positions on a 2-D grid as coordinates in the first quadrant	<u> </u>		
41	describe movements between positions as translations of a given unit to the left/right and up/down		1	
42	plot specified points and draw sides to complete a given polygon	<u> </u>		
	Statistics			
43	interpret and present discrete data using bar charts and continuous statistics using line graphs			
44	solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and			
	simple line graphs	l		

TT step	В	B+	w	W+	S	S+
Points achieved	8-17	18-26	21-27	28-34	35-39	40-44

Year 5 Maths Expectation

	Year 5 Maths Expectation		
	Number, place value, approximation and estimation		
1	read, write, order and compare numbers to at least 1,000,000 and determine the value of each digit		
2	count forwards or backwards in steps of powers of 10 for any given number up to 1,000,000		
3	interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers through zero		
4	round any number up to 1,000,000 to the nearest 10, 100, 1,000, 10,000 and 100,000		
5	solve number problems and practical problems that involve all of the above		
6	read Roman numerals to 1,000 (M) and recognise years written in Roman numerals		
7	add and subtract whole numbers with more than 4 digits, including using efficient written		
8	add and subtract numbers mentally with increasingly large numbers		
9	use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy		
10	solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why		
	Addition and subtraction , multiplication and division		
11	identify multiples and factors, including finding all factor pairs		
12	solve problems involving multiplication and division where larger numbers are used by decomposing them into their factors		
13	know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers		
14	establish whether a number up to 100 is prime and recall prime numbers up to 19		
15	multiply numbers up to 4 digits by a one- or two-digit number using an efficient written method, including long multiplication for two-digit		l
	numbers		<u> </u>
16	multiply and divide numbers mentally drawing upon known facts		
17	divide numbers up to 4 digits by a one-digit number using the efficient written method of short division and interpret remainders		
	appropriately for the context		
18	multiply and divide whole numbers and those involving decimals by 10, 100 and 1000		
19	recognise and use square numbers and cube numbers, and the notation for squared (2) and cubed (3)		
20	solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the		l
	meaning of the equals sign		
21	solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates		
	Fractions		
22	compare and order fractions whose denominators are all multiples of the same number		<u> </u>
23	recognise mixed numbers and improper fractions and convert from one form to the other		
24	add and subtract fractions with the same denominator and related fractions; write mathematical statements >1 as a mixed number (e.g.		
	2/5 + 4/5 = 6/5 = 11/5)		
25	multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams		
	Decimals and fractions		
26	read and write decimal numbers as fractions (e.g. 0.71 = 71/100)		
27	recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents		
28	round decimals with two decimal places to the nearest whole number and to one decimal place		
29	read, write, order and compare numbers with up to three decimal places		-
30	solve problems involving number up to three decimal places		
2.4	Percentages, decimals and fractions		
31	recognise the per cent symbol (%) and understand that per cent relates to "number of parts per hundred", and write percentages as a		
22	fraction with denominator hundred, and as a decimal fraction		
32	solve problems which require knowing percentage and decimal equivalents of 1/2, 1/4, 1/5, 2/5, 4/5 and those with a denominator of a		
	multiple of 10 or 25		
22	Measures		
33	convert between different units of measure		
34	understand and use basic equivalences between metric and common imperial units and express them in approximate terms		
35	measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres		
36	calculate and compare the area of squares and rectangles including using standard units, square centimetres (cm2) and square metres (m2) and estimate the area of irregular shapes		l
37	recognise and estimate volume (e.g. using 1 cm3 blocks to build cubes and cuboids) and capacity		
38	solve problems involving converting between units of time		
39	solve problems involving addition and subtraction of units of measure using decimal notation		
33	Geometry: properties of shapes		
40	identify 3-D shapes, including cubes and cuboids, from 2-D representations		
41	know angles are measured in degrees; estimate and measure them and draw a given angle, writing its size in degrees (o)		
42	Draw given angles and measure them in degrees		
43	identify angles at a point on a straight line and ½ a turn (total 1800)		
44	identify angles at a point on a straight line and 22 a turn (total 1800)		
45	identify reflex angles, and compare different angles		
46	draw shapes using given dimensions and angles		
46	state and use the properties of a rectangle (including squares) to deduce related facts		
47	distinguish between regular and irregular polygons based on reasoning about equal sides and angles		
48	identify, describe and represent the position of a shape following a reflection or translation, using the appropriate language, and know		
43	that the shape has not changed		l
	Statistics		
50	solve comparison, sum and difference problems using information presented in line graphs		
51	complete, read and interpret information in tables, including timetables		
71	complete, read and interpret information in tables, including timetables		

TT step	В	B+	W	W+	S	S+
Points achieved	8-14	15-24	25-32	33-41	42-47	48-51

Year 6	Maths Expectation			
	Number, place value and rounding			
1	read, write, order and compare numbers up to 10 000 000 and determine the value of each digit			
2	round any whole number to a required degree of accuracy			
3	use negative numbers in context, and calculate intervals across zero			
4	solve number problems and practical problems that involve all of the above			
	Addition, subtraction, multiplication and division			
5	multiply multi-digit numbers up to 4 digits by a two-digit whole number using the efficient written method of long			
	multiplication			
6	divide numbers up to 4 digits by a two-digit whole number using the efficient written method of long division, and			
	interpret remainders as whole number remainders, fractions, or by rounding, as appropriate for the context			
7	perform mental calculations, including with mixed operations and large numbers			
8	identify common factors, common multiples and prime numbers			
9	use their knowledge of the order of operations to carry out calculations involving the four operations			
10	solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and			
	why			
11	solve problems involving addition, subtraction, multiplication and division			
12	use estimation to check answers to calculations and determine, in the context of a problem, levels of accuracy			
	Fractions			
13	use common factors to simplify fractions; use common multiples to express fractions in the same denomination			
14	compare and order fractions, including fractions >1			
15	associate a fraction with division to calculate decimal fraction equivalents (e.g. 0.375) for a simple fraction (e.g. 3/8)			
16	add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions			
17	multiply simple pairs of proper fractions, writing the answer in its simplest form (e.g. $1/4 \times 1/2 = 1/8$)			
18	divide proper fractions by whole numbers (e.g. $1/3 \div 2 = 1/6$			
10	Decimals and fractions			
19	identify the value of each digit to three decimal places and multiply and divide numbers by 10, 100 and 1000 where			
13	the answers are up to three decimal places			
20	multiply one-digit numbers with up to two decimal places by whole numbers	 	 	
21	use written division methods in cases where the answer has up to two decimal places	 	 	
22	·			
ZZ	solve problems which require answers to be rounded to specified degrees of accuracy			
23	Percentages, decimals and fractions			
23	solve problems involving the calculation of percentages of whole numbers or measures such as 15% of 360 and the			
24	use of percentages for comparison	 	 	
24	recall and use equivalences between simple fractions, decimals and percentages, including in different contexts			
25	Ratio and proportion			
25	solve problems involving the relative sizes of two quantities, including similarity			
26	solve problems involving unequal sharing and grouping			
	Algebra			
27	express missing number problems algebraically			
28	use simple formulae expressed in words	<u> </u>	<u> </u>	
29	generate and describe linear number sequences	<u> </u>		
30	find pairs of numbers that satisfy number sentences involving two unknowns			
	Measures			
31	solve problems involving the calculation and conversion of units of measure, using decimal notation to three decimal			
	places where appropriate	<u> </u>	<u> </u>	
32	use, 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 vice versa, using decimal notation to three decimal places	<u> </u>	<u> </u>	
33	convert between miles and kilometres			
34	recognise that shapes with the same areas can have different perimeters and vice versa			
35	calculate the area of parallelograms and triangles			
36	recognise when it is necessary to use the formulae for area and volume of shapes			
37	calculate, estimate and compare volume of cubes and cuboids using standard units, including centimetre cubed (cm3)			
L	and cubic metres (m3) and extending to other units, such as mm3 and km3			
	Geometry: properties of shapes			
38	recognise, describe and build simple 3-D shapes, including making nets			
39	compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles,			
	quadrilaterals, and regular polygons			
40	illustrate and name parts of circles, including radius, diameter and circumference			
41	find unknown angles where they meet at a point, are on a straight line, and are vertically opposite			
	Geometry: position, direction, motion			
42	describe positions on the full coordinate grid (all four quadrants)			
43	draw and translate simple shapes on the coordinate plane, and reflect them in the axes			
	Statistics			
44	interpret and construct pie charts and line graphs and use these to solve problems			
45	calculate and interpret the mean as an average			
	1 constitute and meet pretitive mean as an average	ь	ь	

TT step	В	B+	W	W+	S	S+
Points achieved	8-17	18-26	21-27	28-34	35-39	40-45