

MATHEMATICS - NATIONAL CURRICULUM EXPECTATIONS – UPPER KEY STAGE 2

MATHEMATICS YEAR 5							
Number – Number and Place Value	Number – Addition and subtraction	Number – Multiplication and division	Number – fractions inc decimals & %	Measurement	Geometry – Properties of shape	Geometry – Position and direction	Statistics
Pupils should	Pupils should	Pupils should be taught	Pupils should be taught to:	Pupils should be	Pupils should	Pupils	Pupils
be taught to:	be taught to:	to:	5.NFD. a. I can compare and	taught to:	be taught to:	should be	should be
5.NPV.a. I can	5.NAS.a. I can	5.NMD.a. I can identify	order fractions whose	5.M.a. I can	5.GPS.a. I can	taught to:	taught to:
read, write,	add and	multiples and factors,	denominators	convert between	identify 3-D	5.GPD.a I	5.S.a. I can
order and	subtract whole	including finding	are all multiples of the same	different units of	shapes, including	can identify,	solve
compare	numbers with	all factor pairs of a number,	number	metric measure	cubes and other	describe and	comparison,
numbers to at	more than 4	and common factors of two		(for example,	cuboids, from 2-D	represent	sumand
least 1 000 000	digits,	numbers	5.NFD.b. I can identify, name	kilometre and	representations	the position	difference
and determine	including		and write equivalent fractions	metre; centimetre		of a shape	problems
the value of	using formal	5.NMD.b. I know and use	of a given fraction,	and metre;	5.GPS.b. I know	following a	using
each digit	written	the vocabulary of prime	represented visually,	centimetre and	angles are	reflection or	information
-	methods	numbers, prime factors and	including tenths and	millimetre; gram	measured in	translation,	n presented
5.NPV.b. I can	(columnar	composite (non-prime)	hundredths	and kilogram; litre	degrees:	using the	in a line
count forwards	addition and	numbers		and millilitre)	estimate and	appropriate	graph
or backwards in	subtraction)		5.NFD. c. I can recognise		compare acute,	language,	
steps of powers		5.NMD.c. I can establish	mixed numbers and improper	5.M.b. I	obtuse and reflex	and know	5.S.b. I can
of 10 for any	5.NAS.b. I can	whether a number up to 100	fractions and convert from	understand and	angles	that the	complete,
given number	add and	is prime and recall prime	one form to the other and	use approximate		shape has	read and
up to 1 000 000	subtract	numbers up to 19	write mathematical	equivalences	5.GPS.c. I can	not changed.	interpret
	numbers		statements > 1 as a mixed	between metric	draw given		information
5.NPV.c. I can	mentally with	5.NMD.d. I can multiply	number [for example, 2/5 +	units and common	angles, and		n in tables,
interpret	increasingly	numbers up to 4 digits by a	4/5 = 6/5 = 1 1/5	imperial units such	measure them in		including
negative	large numbers	one-or two-digit number		as inches, pounds	degrees (o)		timetables
numbers in		using a formal written	5.NFD.d. I can add and	and pints			
context, count	5.NAS.c. I can	method, including long	subtract fractions with the		5.GPS.d. I can		
forwards and	use rounding	multiplication for two-digit	same denominator and	5.M.c. I can	identify:		
backwards with	to check	numbers	denominators	measure and	i. angles at a		
positive and	answers to		that are multiples of the same	calculate the	point and one		
negative whole	calculations	5.NMD.e. I can multiply and	number	perimeter of	whole turn (total		
numbers,	and	divide numbers mentally		composite	360o)		
including	determine, in	drawing upon known facts	5.NFD.e. I can	rectilinear shapes	ii. angles at a		
through zero	the context of		multiply proper fractions and	in centimetres and	point on a		
	a problem,	5.NMD.f.I can divide	mixed numbers by whole	metres	straight line and		



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5.NPV.d. I can	levels of	numbers up to 4 digits by a	numbers, supported by	5.M.d. I can	1/2 a turn (total	
round any	accuracy	one-digit	materials and diagrams	calculate and	1800)	
number up to 1		number using the formal		compare the area	iii. other	
000 000 to the	5.NAS.d. I can	written method of short	5.NFD.f. I can read and write	of rectangles	multiples of 90o	
nearest 10,	solve addition	division and interpret	decimal numbers as fractions	(including		
100, 1000, 10	and	remainders appropriately for	[for example, 0.71 = 71/100	squares), and	5.GPS.e. I can	
000 and 100	subtraction	the context		including using	use the	
000	multi-step		5.NFD. g. I can recognise and	standard units,	properties of	
	problems in	5.NMD.g. I can multiply and	use thousandths and relate	square	rectangles to	
5.NPV.e. I can	contexts,	divide whole numbers and	them to tenths, hundredths	centimetres	deduce related	
solve number	deciding which	those involving decimals by	and decimal equivalents	(cm2) and square	facts and find	
problems and	operations	10, 100 and 1000		metres (m2) and	missing lengths	
practical	and methods		5.NFD.h. I can round	estimate the area	and angles	
problems that	to use and	5.NMD.h. I can recognise	decimals with two decimal	of irregular shapes		
involve all of	why.	and use square numbers	places to the nearest whole		5.GPS.f. I can	
the above	-	and cube numbers, and the	number and to one decimal	5.M.e. I can	distinguish	
numerals to		notation for squared (2) and	place	estimate volume	between regular	
1000 (M) and		cubed (3)	compare numbers with up to	[for example,	and irregular	
recognise years		5.NMD.i.l can solve	three decimal places	using 1 cm3	polygons based	
written in		problems involving	·	blocks to build	on reasoning	
Roman		multiplication and division		cuboids (including	about equal sides	
numerals.		including using their	5.NFD.i. I can solve problems	cubes)] and	and angles.	
		knowledge of factors and	involving number up to three	capacity [for	5	
		multiples, squares and	decimal places	example, using		
		cubes		water]		
			5.NFD.j. I can recognise the			
		5.NMD.j. I can solve	per cent symbol	5.M.f. I can solve		
		problems involving addition,	(%) and understand that per	problems involving		
		subtraction, multiplication	cent relates to 'number of	converting		
		and division and a	parts per hundred', and write	between units of		
		combination	percentages as a fraction with	time		
		of these, including	denominator 100, and as a			
		understanding the meaning	decimal	5.M.g. I can use		
		of the equals sign	deoimai	all four operations		
			5.NFD.k. I can solve	to solve problems		
		5.NMD.k. I can solve	problems which require	involving measure		
		problems involving	knowing percentage and	[for example,		
		multiplication and division,	decimal equivalents of $\frac{1}{2}$, $\frac{1}{4}$,	length, mass,		
		including scaling by simple	1/5, $2/5$ and $4/5$ and those	volume, money]		
		fractions and problems	fractions with	using decimal		
		involving simple rates.	a denominator of a multiple of	notation, including		
			10 or 25.			
			10 01 25.	scaling.		



MATHEMATICS YEAR 6							
Number – Number and Place Value	Number – Addition and subtraction, Multiplication and division	Number – Fractions inc decimals & %	Ratio & Proportion	Algebra	Measurement	Geometry Properties of shape	Geometry Position & Direction
Pupils should	Pupils should be	Pupils should be	Pupils should be	Pupils should	Pupils should	Pupils should be	Pupils
be taught to:	taught to:	taught to:	taught to:	be taught to:	be taught to:	taught to:	should be
6.NPV.a. I can	6.NAS.a. I can multiply	6.NFD.a. I can use	6.RP.a.a I can	6.A.a. I can	6.M.a. I can solve	6.GPS.a. I can draw	taught to:
read, write,	multi-digit numbers up	common factors to	solve problems	use simple	problems	2-D shapes using	6.GPD.a. I
order and	to 4 digits by a two-digit	simplify fractions; use	involving the	formulae	involving the	given dimensions	can describe
compare	whole number using the	common multiples to	relative sizes of two		calculation and	and angles	positions on
numbers up to	formal written method	express fractions in the	quantities where	6.A.b. I can	conversion of		the full
10 000 000 and	of long multiplication	same denomination	missing values can	generate and	units of measure,	6.GPS.b. I can	coordinate
determine the			be found by using	describe linear	using decimal	recognise, describe	grid (all four
value of each	6.NAS.b. I can divide	6.NFD.b. I can compare	integer	number	notation up to	and build simple 3-D	quadrants)
digit	numbers up to 4 digits	and order fractions,	multiplication and	sequences	three decimal	shapes, including	
	by a two-digit whole	including fractions > 1	division facts		places where	making nets	6.GPD.b. I
6.NPV.b. I can	number using the			6.A.c. I can	appropriate		can draw and
round any	formal written method	6.NFD.c. I can add and	6.RP.b. I can solve	express		6.GPS.c. I can	translate
whole number	of long division, and	subtract fractions with	problems involving	missing	6.M.b. I can use,	compare and	simple shapes
to a required	interpret remainders as	different denominators	the calculation of	number	read, write and	classify geometric	on the
degree of	whole number	and mixed numbers,	percentages [for	problems	convert between	shapes based on	coordinate
accuracy	remainders, fractions,	using the concept of	example, of	algebraically	standard units,	their properties and	plane, and
	or by rounding, as	equivalent fractions	measures, and		converting	sizes and find	reflect them in
6.NPV.c. I can	appropriate for the		such as 15% of	6.A.d. I can	measurements of	unknown angles in	the axes.
use negative	context	6.NFD.d. I can multiply	360] and the use of	find pairs of	length, mass,	any triangles,	
numbers in		simple pairs of proper	percentages for	numbers that	volume and time	quadrilateral s, and	
context, and	6.NAS.c. I can divide	fractions, writing the	comparison	satisfy an	from a smaller	regular polygons	
calculate	numbers up to 4 digits	answer in its simplest		equation with	unit of measure		
intervals across	by a two-digit number	form [for example,1/4 ×	6.RP.c. I can solve	two unknowns	to a larger unit,	6.GPS.d. I can	
zero	using the formal written	1⁄4 =] 1/8	problems involving		and vice versa,	illustrate and name	
	method of short division		similar shapes	6.A.e. I can	using decimal	parts of circles,	
6.NPV.d. I can	where appropriate,	6.NFD.e. I can divide	where the scale	enumerate	notation to up to	including radius,	
solve number	interpreting remainders	proper fractions by	factor is known or	possibilities of	three decimal	diameter and	
and practical	according to the context	whole numbers [for	can be found	combinations	places	circumference and	
problems that		example, $1/3 \div 2 = 1/6$]		of two		know that the	
involve all of	6.NAS.d. I can perform			variables.	6.M.c. I can	diameter	
the	mental calculations,	6.NFD.f. I can associate	6.RP.d. I can solve		convert between	is twice the radius	
above	including with mixed	a fraction with division	problems involving		miles and		
	operations and large	and calculate decimal	unequal sharing		kilometres	6.GPS.e. I can	



numbersration equivalents (for example, 0.375) for a common factors, common multiples and prime numbersration equivalents (for example, 0.375) for a simple fraction (for example, 38]and grouping using knowledge of f fractions and multiples.6.M.d. I can recognise that shapes with the same areas can have different perimeters and fractions and multiples.6.M.d. J. Can recognise that shapes with the same areas can a different perimeters and fractions ind multiples.6.M.d. J. Can recognise that shapes with the same areas can a different perimeters and fractions and multiples.fraction equivalence fractions and multiples.fractions and method geo ff perimeters and fractions and multiples.fraction equivalence fractions and methods to use and when it term to three decimal places formulae for area and volumefraction equivalence fractions and methods to use and which operations to carry out for oblems income swhere the asser has up to two decimal places formulae for area and volumefraction equivalence formulae for area and volumefraction equivalence fractions and methods to use and which operations and method so to carculate the area of anallelograms and trianglesfraction equivalence fraction equivalences between et al. (I. I can answer has up to two decimal places estimate on calculate, estimate and coblicition, subtraction, multiplication and <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>CALL OF THE PARTY OF THE PARTY</th>								CALL OF THE PARTY
6.NAS.e. I can identify common multiples and prime numberssimple fraction (for example, 3/8]fractions and 		numbers	fraction equivalents [for				recognise angles	
common factors, common multiples and prime numbersexample, 3/8]multiples.shapes with the same areas can have different perimeters and vice versastraight line, or are vertically opposite, and find missing angles.6.NAS.f. I can use my knowledge of the order of operations to carry out calculations involving the four operations6.NFD.g. I can identify the value of each digit in numbers by 10, 100 and 1000 giving answers up to three decimal places6.Me. I can recognise when it is possible to use formulae for area and volume of shapes6.NAS.g. I can solve addition and subtraction multi-step problems in why6.NFD.h. I can multiply or digit numbers with up to two decimal places6.Mf. I can calculate the area of shapes6.NAS.h. I can solve problems involving addition, subtraction, multipication and why6.NFD.i. I can were the answer has up to two decimal places6.Mf. I can calculate the area of parallelograms and triangles6.NAS.h. I can solve problems involving addition, subtraction, multipication and division6.NFD.j. I can recall and use equivalences6.Mf. I can calculate, estimate and compare volume of cubes and compare volume of cubes and cuboids using standard units, including cubic centimeters6.NAS.j. I can use estimation to check answers to calculations and determine, in the6.NFD.j. I can recall and use equivalences batween simple6.NAS.j. I can use estimation to check answers to calculations and determine, in the6.NFD.j. I can recall and use equivalences batween simple6.NAS.j. I can use estimation to che				knowledge of			where they meet at	
common multiples and prime numbers6NFD.g. I can identify the value of each digit in numbers given to three decimal places and multiply and divide numbers by 10, 100 and to calculations involving the four operationssame areas can have different perimeters and vice versaverically opposite, and find missing angles.6.NAS.g. I can solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why6.NFD.h. I can multiply one-digit numbers6.NFD.h. I can multiply one-digit numbers6.NF.I. can recognise when it is possible to use formulae for area and volume6.NAS.g. I can solve addition and subtraction multi-step problems in which operations and methods to use and why6.NFD.h. I can multiply one-digit numbers6.M.f. I can calculate the area of parallelograms and triangles6.M.f. I can calculate, estimate and compare volume of calculate, estimate and compare volume of cubes and which require answers to be rounded to specified degrees of accuracy6.N.g. I can calculate, estimate and compare volume of cubes and using alpaces6.NAS.j. I can use estimation to check answers to calculations and derivale parks and to tox decimal places6.N.g. I can calculate, estimate and compare volume of cubes and use quivalences between simple6.N.g. I can calculate, estimate and compare volume of cubes and compare volume of cubes and cuboids using standard units, including cubic centimetres (cm3) and cubic6.NAS.j. I can use estimation to check answers to calculations and determine, in the simple fractions, de		6.NAS.e. I can identify	simple fraction [for	fractions and			a point, are on a	
prime numbers6.NFD.g.1 can identify the value of each digit in numbers given to three decimal places and multiply and dividehave different perimeters and vice versaand find missing angles.6.NAS.f.1 can use my knowledge of the order of operations to carry out calculations involving the four operations6.M.F.1 can to mubers by 10, 100 and 1000 giving answers up to three decimal places6.M.e.1 can recognise when it is possible to use formulae for area and volumeand find missing angles.6.NAS.g. I can solve addition and subtraction multi-step problems in contexts, deciding why6.NFD.h.1 can multiply to two decimal places6.M.f. I can calculate the area of parallelograms and triangles6.M.f. I can calculate the area of parallelograms and trianglesand subtraction and volume6.NAS.h. I can solve problems involving addition, subtraction, multijection and division6.NFD.i. I can use which require answers to be conded to specified degrees of accuracy6.M.g. I can calculate, estimate and cubic using standard units, including cubic centimetres (cm3) and cubic6.NFD.j. I can recall and use equivalences6.NAS.j. I can use estimation to check answers to calculation and determine, in the6.NFD.j. I can recall and use equivalencescompare volume centimetres (cm3) and6.NAS.j. I can use estimation to check answers to calculations and determine, in the6.NFD.j. I can recall and use equivalencescompare volume centimetres (cm3) and cubic		common factors,	example, 3/8]	multiples.		shapes with the	straight line, or are	
Image: Second		common multiples and				same areas can	vertically opposite,	
6.NAS.f. 1 can use of operations to carry out calculations involving the four operationsnumbers given to three decimal places and numbers by 10, 100 and 1000 giving answers up to three decimal placesvice versa6.NAS.g. 1 can solve addition and subtraction multi-step problems in contexts, deciding why6.NFD.h. 1 can multiply one-digit numbers with up to two decimal places6.NF.l. can canculates6.NAS.g. 1 can solve addition and subtraction multi-step problems in contexts, deciding why6.NF.D.h. 1 can multiply one-digit numbers6.NF.l. can canculates6.NAS.h. 1 can solve groblems involving addition, subtraction, multiplication and division6.NF.D.i. 1 can use written division methods in cases where the answer has up to two decimal places6.M.g. 1 can calculate the area of parallelograms and triangles6.NAS.h. 1 can solve groblems involving addition, subtraction, multiplication and division6.NF.D.i. 1 can use written division methods in cases of accuracy6.M.g. 1 can calculate, estimate and cuboids using standard units, incuding cubic centimetres (cm3) and cubic6.NAS.j. 1 can use estimation to check answers to calculations and determine, in the6.NF.D.j. 1 can recall and use equivalences between simple fractions, decimals and6.NF.D.j. an recall and use equivalences between simple fractions, decimals and		prime numbers	6.NFD.g. I can identify			have different	and find missing	
knowledge of the order ofdecimal places and multiply and divide6.M.e. I can recognise when it is possible to use formulae for area and volumecalculations involving the four operations6.NFD.h. 1 can multiply to three decimal places6.M.FD. in can multiply ore-digit numbers with up to two decimal places6.M.F. I can recognise when it is possible to use formulae for area and volume6.NAS.g. I can solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why6.NFD.i. I can use written division methods in cases where the answer has up to two decimal places6.M.f. I can calculate the area of parallelograms and triangles6.NAS.h. I can solve addition, subtraction, multiplication and division6.NFD.i. I can use writen division methods in cases where the decimal places6.M.g. I can calculate, estimate and compare volume decimal places6.NAS.j. I can use estimation to check answer to calculations and determine, in the6.NFD.j. I can recall and use equivalences between simple6.NFD.j. and6.NAS.j. I can use estimation to check answers to calculations and determine, in the6.NFD.j. I can recall and use equivalences between simple fractions, decimals and6.NFD.j. and						perimeters and		
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operations to carry out calculations involving the four operationsnumbers by 10, 100 and 1000 giving answers up to three decimal placesrecognise when it is possible to use formulae for area and volume of shapes6.NAS.g. I can solve addition and subtraction multi-step problems in contexts, deciding why6.NFD.h. I can multiply one-digit numbers with up to two decimal places6.M.f. I can calculate the area of parallelograms and triangles6.NAS.h. I can solve problems involving addition, subtraction, multiplication and division6.NFD.i. I can use to two decimal places6.M.g. I can calculate, estimate and compare volume of cubes and which require answers to be rounded to specified degrees of accuracy6.M.S. I can calculate, estimate and compare volume of cubes and compare volume doids using standard units, including cubic centimetres (cm3) and cubic6.NAS.j. I can use estimation to check answers to calculation and determine, in the6.NFD.j. I can recall and use equivalences between simple formulae for and andcalculate, compare volume doids using standard units, including cubic centimetres (cm3) and cubic		knowledge of the order	decimal places and					
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6.NAS.g. I can solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why6.NFD.h. I can multiply one-digit numbers with up to two decimal places by whole numbersof shapes6.NAS.h. I can solve problems involving addition, subtraction, multiplication and division6.NFD.i. I can use written division methods in cases where the answer has up to two decimal places6.M.G. I can calculate the area of parallelograms and triangles6.NAS.h. I can solve problems involving addition, subtraction, multiplication and division6.NFD.i. I can use writen division methods in cases of the end of								
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