

Mill Class Maths Planning Overview

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7
Aut 1	Count, read, write Rour	lace Value 1 numbers e, order, compare nding numerals	Number - Addition and Subtraction 1 Mental methods Formal methods Multi-step problems	Formal writter	ation and Division 1 methods n multiplication ong division	Measures 1 Perimeter and area	Number - Multiplication and Division 2 Multiples, factors, prime numbers
Aut 2	Number - 1	Fractions 1	Number - Measi	lace Value 2 imals Fractions 2 ures 2 uetween units	Geometry - Properties of Shape 1 Shape and angles	Geometry - Position 1 Co-ordinates	Assess and Review
Spr	Number -	Fractions 3	Measures 3 Time and money	Statistics 1 Line graphs	Number - Fractions 4		
1	Ratio and F	Proportion 1	Mass and capacity	Timetables			
Spr	•	ation and Division 3 quare and cube numbers	Algebra 1	Number - Addition and Subtraction 2 Number - Fractions 5	Number - P Value 3 Negative numbers	Assess and Review	
2	Ratio and F	Proportion 2	Measures 4 Volume of cubes and cuboids	Algebra 2 Number sequences	Statistics 2 Line graphs	Assess and Review	
Sum	Number - +/- 3 Number - x/÷ 4 Secure formal	Number - Fractions 7	Statutory Tests	Geometry Identify and build 3D		Statistics 3	
1	methods Number - Fractions 6	Geometry - Shape 2 Geometry - Position 2	(SATS)	The state of the s	egular polygons		
Sum	Number -	Fractions 8	Number - Place Value 4 Number - Addition and Subtraction 4 Number - Multiplication and Division 5		Number - Addition and Subtraction 5 Number - Fractions 9		Number - Multiplication and division 6
2	Ratio and F	Proportion 3	Algel	bra 3	Measi Ar Conversion between un		Secure formal methods

	Number and Place	e Value		
YEAR 5 NC Objectives	YEAR 6 NC Objectives	Autumn Content	Spring Content	Summer Content
	nting	Y5/6 and Y6	75/6 and Y 6	Y5/6 and Y6
Interpret negative numbers in context, count	Use negative numbers in context, and calculate	Number and Place Value	Number and Place Value	Number and Place Value
forwards and backwards with positive and	intervals across zero	1	3	4
negative whole numbers, including through zero		Solve number problems	Interpret negative	Read, write, order and
		and practical problems	numbers in context, count	compare numbers up to
Count forwards or backwards in steps of powers		involving the following:	forwards and backwards	10 000 000 and determine
of 10 for any given number up to 1 000 000	<u> </u>		with positive and negative	the value of each digit
	Numbers	Read, write, order and	whole numbers, including	(appears also in Reading
Read, write, order and compare numbers to at	Read, write, order and compare numbers up to	compare numbers to 1,000,000 (extend to 10,	through zero	and Writing Numbers)
least 1 000 000 and determine the value of each	10 000 000 and determine the value of each digit	000,000 (extend to 10, 000, 000 for Y6) and	Use negative numbers in	
digit Pagding and W	riting Numbers	determine the value of	context, and calculate	
Read, write, order and compare numbers to at	Read, write, order and compare numbers up to	each digit.	intervals across zero	
least 1 000 000 and determine the value of each	10 000 000 and determine the value of each	and angles		
digit (appears also in Comparing Numbers)	digit (appears also in Understanding Place Value)	Round any whole number		
ang. (appears also in comparing remisers)	(up to 1000000 to the		
Read Roman numerals to 1 000 (M) and recognise		nearest 10, 100, 1000 10		
years written in Roman numerals.		000 and 100 000.		
Understandir	ng Place Value			
Read, write, order and compare numbers to at	read, write, order and compare numbers up to 10	Count forwards or		
least 1 000 000 and determine the value of each	000 000 and determine the value of each digit	backwards in steps of		
digit		powers of 10 for any given		
	identify the value of each digit to three decimal	number up to 1 000 000		
Recognise and use thousandths and relate them	places and multiply and divide numbers by 10,	Read Roman numerals to 1		
to tenths hundredths and decimal equivalents	100 and 1 000 where the answers are up to	000 (M) and recognise		
David	three decimal places	years written in Roman		
Round any number up to 1000000 to the nearest	Round any whole number to a required degree of	numerals.		
10, 100, 1000 10 000 and 100 000	accuracy			
10, 100, 1000 10 000 and 100 000	deedi dey	Number and Place value		
Round decimals with two decimal places to the	Solve problems which require answers to be	2		
nearest whole number and to one decimal place	rounded to specified degrees of accuracy			
Problem	n Solving	Identify the value of each		
Solve number problems and practical problems	Solve number and practical problems that	digit to three decimal		
that involve all of the above	involve all of the above	places and multiply and		
	gress Criteria	divide numbers by 10, 100 and 1 000 where the		
5NPV-1 Know that 10 tenths are equivalent to 1	6NPV-1 Understand the relationship between	answers are up to three		
one, and that 1 is 10 times the size of 0.1. Know	powers of 10 from 1 hundredth to 10 million, and	decimal places.		
that 100 hundredths are equivalent to 1 one, and	use this to make a given number 10, 100, 1,000, 1			
that 1 is 100 times the size of 0.01. Know that	tenth, 1 hundredth or 1 thousandth times the	Round any number		
10 hundredths are equivalent to 1 tenth, and	size (multiply and divide by 10, 100 and 1,000).			

that 0.1 is 10 times the size of 0.01.	6NPV-2 Recognise the place value of each digit	(including decimals to	
5NPV-2 Recognise the place value of each digit	in numbers up to 10 million, including decimal	required degree of	
in numbers with up to 2 decimal places, and	fractions, and compose and decompose numbers	accuracy)	
compose and decompose numbers with up to 2	up to 10 million using standard and nonstandard		
decimal places using standard and non-standard	partitioning.		
partitioning.	6NPV-3 Reason about the location of any		
5NPV-3 Reason about the location of any	number up to 10 million, including decimal		
number with up to 2 decimals places in the linear	fractions, in the linear number system, and		
number system, including identifying the	round numbers, as appropriate, including in		
previous and next multiple of 1 and 0.1 and	contexts.		
rounding to the nearest of each	6NPV-4 Divide powers of 10, from 1 hundredth		
5NPV-4 Divide 1 into 2, 4, 5 and 10 equal parts,	to 10 million, into 2, 4, 5 and 10 equal parts, and		
and read scales/number lines marked in units of	read scales/number lines with labelled intervals		
1 with 2, 4,	divided into 2, 4, 5 and 10 equal parts.		
5NPV-5 Convert between units of measure,			
including using common decimals and fractions			

	Addition and Sub	traction		
YEAR 5 NC Objectives Mental C	YEAR 6 NC Objectives alculation	Autumn Content Y5/6 and <mark>Y6</mark>	Spring Content Y5/6 and Y6	Summer Content Y5/6 and Y6
Add and subtract numbers mentally with increasingly large numbers	Add and subtract numbers mentally with increasingly large numbers Use their knowledge of the order of operations to carry out calculations involving the four operations	Addition and Subtraction 1 Add and subtract numbers with more than 4 digits using formal methods.	Addition and subtraction 2 Solve addition and subtraction multi-step problems.	Addition and subtraction 3 Revise formal method of subtraction and addition. Solve problems involving addition, subtraction,
Written Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction)	Methods	Solve addition and subtraction multi-step problems in contexts,	Perform mental calculations, including mixed operations and large numbers.	multiplication and division, deciding on methods and operations to use.
	uting and Checking Answers Use estimation to check answers to calculations and determine, in the context of a problem, levels of accuracy	deciding which operations and methods to use. Use rounding to check answers to calculations.	Estimate to check in context.	Addition and subtraction 4 Perform mental
•	Solving Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why Solve problems involving addition, subtraction, multiplication and division	Use estimation to check answers to calculations Add and subtract numbers mentally with increasingly large		calculations. Solve multi-step problems. Use estimation to check answers in context. Addition and subtraction
Ready to Pro 5NF-2 Apply place-value knowledge to known	gress Criteria 6AS/MD-1 Understand that 2 numbers can be	numbers		5 Perform mental

additive and multiplicative number facts (scaling	related additively or multiplicatively, and		calculations involving all
facts by 1 tenth or 1 hundredth).	quantify additive and multiplicative relationships		four operations
	(multiplicative relationships restricted to		
	multiplication by a whole number).		Solve problems involving
	6AS/MD-2 Use a given additive or multiplicative		addition, subtraction,
	calculation to derive or complete a related		multiplication and division
	calculation, using arithmetic properties, inverse		
	relationships, and place-value understanding.		Use estimation to check
	6AS/MD-3 Solve problems involving ratio		answers and accuracy in
	relationships.		context of a problem
	6AS/MD-4 Solve problems with 2 unknowns.		

	Multiplication and	Division		
YEAR 5 NC Objectives	YEAR 6 NC Objectives	Autumn Content	Spring Content	Summer Content
Multiplication a	nd Division Facts	Y5/6 and Y6	Y5/6 and Y6	Y5/6 and Y6
Count forwards or backwards in steps of powers of 10 for any given number up to 1 000 000		Multiplication and Division 1	Multiplication and Division 3	Multiplication and Division 4
Mental C	alculation	Multiply numbers up to 4	Use their knowledge of	Revise formal methods of
Multiply and divide numbers mentally drawing	Perform mental calculations, including with	digits by a one- or two-	the order of operations	multiplication and division.
upon known facts	mixed operations and large numbers	digit number using a formal written method.	to carry out calculations involving the four	Solve problems involving all four operations.
Multiply and divide whole numbers and those	Associate a fraction with division and calculate		operations.	Use estimation to check
involving decimals by 10, 100 and 1000	decimal fraction equivalents (e.g. 0.375) for a	Multiply and divide		answers in context.
	simple fraction (e.g. 3/8	numbers mentally drawing	Divide numbers up to 4	
Written (Calculation	upon known facts	digits by a two-digit whole	Multiplication and
Multiply numbers up to 4 digits by a one- or two-digit number using a formal written method, including long multiplication for two-digit numbers Divide numbers up to 4 digits by a one-digit number using the formal written method of short division and interpret remainders appropriately for the context	Multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication Divide numbers up to 4-digits by a two-digit whole number using the formal written method of short division where appropriate for the context Divide numbers up to 4 digits by a two-digit	Divide numbers up to 4 digits by a one-digit (or two-digit Year 6) number using the formal written method of short division and interpret remainders appropriately for the context.	(or division, and interpret remainders as whole number remainders, ision fractions or by rounding, as appropriate for the context. Multiply and divide	Division 5 Perform mental calculations involving all four operations. Associate a fraction with division and calculate decimal fraction equivalents (e.g. 0.375)
	whole number using the formal written method of long division, and interpret remainders as whole number remainders, fractions or by rounding, as appropriate for the	Divide numbers up to 4 digits by a two-digit whole number using the formal written method of long	written methods - Year 5 revision and extension. Multiply and divide whole	for a simple fraction (e.g. 3/8) Identify common factors,
	context	division, and interpret remainders as whole	numbers and those involving decimals by 10,	common multiples and primes.
	Use written division methods in cases where the answer has up to two decimal places	number remainders, fractions or by rounding,	100 and 1000	Multiplication and

Properties of Numbers: Multiples Fact	tors, Primes, Square and Cube Numbers	as appropriate for the	Recognise and use square	division 6
Identify multiples and factors, including finding	Identify common factors, common multiples and	context	numbers and cube	2.7.5.011
all factor pairs of a number, and common	prime numbers		numbers, and the notation	Formal method of
factors of two numbers	prime names.	Multiplication and	for squared (2) and cubed	multiplication.
	Use common factors to simplify fractions; use	Division 2	(3)	Formal method of division
Know and use the vocabulary of prime numbers,	common multiples to express fractions in the			both short and long.
prime factors and composite (nonprime)	same denomination (copied from Fractions)	Identify multiples and		Interpret remainders
numbers	Came denomination (copied promite denome)	factors, including finding		from division as whole
	Calculate, estimate and compare volume of	all factor pairs of a		numbers, fractions, or
Establish whether a number up to 100 is prime	cubes and cuboids using standard units, including	number, and common		rounding as appropriate
and recall prime numbers up to 19	centimetre cubed (cm³) and cubic metres (m³),	factors of two numbers.		for context.
	and extending to other units such as mm ³ and			Use estimation to check
Recognise and use square numbers and cube	km ³	Know and use the		answers and accuracy in
numbers, and the notation for squared (2) and		vocabulary of prime		context of a problem.
cubed (3)		numbers, prime factors		•
Order of (Operations	and composite (nonprime)		
	Use their knowledge of the order of operations	numbers		
	to carry out calculations involving the four			
	operations	Establish whether a		
Inverse Operations, Estima	ating and Checking Answers	number up to 100 is prime		
	Use estimation to check answers to calculations	and recall prime numbers		
	and determine, in the context of a problem,	up to 19		
	levels of accuracy	-1		
Problem		Identify common factors,		
Solve problems involving multiplication and	Solve problems involving addition, subtraction,	common multiples and		
division including using their knowledge of	multiplication and division	prime numbers		
factors and multiples, squares and cubes				
	Solve problems involving similar shapes where			
Solve problems involving addition, subtraction,	the scale factor is known or can be found			
multiplication and division and a combination of				
these, including understanding the meaning of				
the equals sign				
Solve problems involving multiplication and				
division, including scaling by simple fractions and				
problems involving simple rates	anaga Cuitania			
	gress Criteria 6AS/MD-1 Understand that 2 numbers can be			
5NF-1 Secure fluency in multiplication table facts, and corresponding division facts, through	related additively or multiplicatively, and			
continued practice.	quantify additive and multiplicative relationships			
5NF-2 Apply place-value knowledge to known	(multiplicative relationships restricted to			
additive and multiplicative number facts (scaling	multiplication by a whole number).			
facts by 1 tenth or 1 hundredth).	manuprication by a whole number j.			
5MD-1 Multiply and divide numbers by 10 and	6AS/MD-2 Use a given additive or multiplicative			
one - marciply and divide numbers by 10 and	1 S. S. M. 2 030 a given additive of manufacture	l	1	

100; understand this as equivalent to making a	calculation to derive or complete a related		
number 10 or 100 times the size, or 1 tenth or 1	calculation, using arithmetic properties, inverse		
hundredth times the size.	relationships, and place-value understanding.		
5MD-2 Find factors and multiples of positive	6AS/MD-3 Solve problems involving ratio		
whole numbers, including common factors and	relationships.		
common multiples, and express a given number	6AS/MD-4 Solve problems with 2 unknowns.		
as a product of 2 or 3 factors.	,		
5MD-3 Multiply any whole number with up to 4			
digits by any one-digit number using a formal			
written method.			
5MD-4 Divide a number with up to 4 digits by a			
one-digit number using a formal written method,			
and interpret remainders appropriately for the			
context			

	Fractions (including Decimals	and Percentages)		
YEAR 5 NC Objectives	YEAR 6 NC Objectives	Autumn Content	Spring Content	Summer Content
Recognisin	g Fractions	Y5/6 and Y6	Y5/6 and Y6	Y5/6 and Y6
Recognise and use thousandths and relate them		Fractions 1	Fractions 3	Fractions 6
to tenths, hundredths and decimal equivalents		Use common factors to	Recognise the per cent	Multiply one-digit
Comparing	Fractions	simplify fractions; use	symbol (%) and	numbers with up to two
Compare and order fractions whose	Compare and order fractions, including fractions	common multiples to	understand that per cent	decimal places by whole
denominators are all multiples of the same	>1	express fractions in the	relates to "number of	numbers.
number		same denomination.	parts per hundred", and	Use written division
Comparin	g Decimals		write percentages as a	methods in cases where
Read, write, order and compare numbers with	Identify the value of each digit in numbers	Recall and use	fraction with denominator	the answer has up to two
up to three decimal places	given to three decimal places	equivalences between	100 as a decimal fraction	decimal places.
Rounding Incl	uding Decimals	simple fractions, decimals		Associate a fraction with
Round decimals with two decimal places to the	Solve problems which require answers to be	and percentages.	Read and write decimal	division and calculate
nearest whole number and to one decimal place	rounded to specified degrees of accuracy		numbers as fractions (e.g.	decimal fraction
		Identify, name and write	0.71 = 71/100)	equivalents (e.g. 0.375)
Equivalence (Including Fraction	ons, Decimals and Percentages)	equivalent fractions of a		for a simple fraction (e.g.
Identify, name and write equivalent fractions of	Use common factors to simplify fractions; use	given fraction,	Recognise and use	3/8)
a given fraction, represented visually, including	common multiples to express fractions in the	represented visually,	thousandths and relate	
tenths and hundredths	same denomination	including tenths and	them to tenths,	Fractions 7
		hundredths.	hundredths and decimal	Geometry 3 with
Read and write decimal numbers as fractions	Associate a fraction with division and calculate		equivalents	fractions
(e.g. 0.71 = 71/100)	decimal fraction equivalents (e.g. 0.375) for a	Compare and order		Multiply pairs of proper
	simple fraction (e.g. 3/8)	fractions whose	Solve problems which	fractions.
Recognise and use thousandths and relate them		denominators are all	require knowing	Divide proper fractions by
to tenths, hundredths and decimal equivalents		multiples of the same	percentage and decimal	whole numbers.
•		number (including	equivalents of $\frac{1}{2}$, $\frac{1}{4}$, 1/5,	Multiply proper fractions
Recognise the per cent symbol (%) and	Recall and use equivalences between simple	fractions >1 - Year 6)	2/5, 4/5 and those with	and mixed numbers by

understand that per cent relates to "number of parts per hundred", and write percentages as a fraction with denominator 100 as a decimal fraction Addition and Subt Add and subtract fractions with the same denominator and multiples of the same number Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements > 1 as	fractions, decimals and percentages, including in different contexts. Paction of Fractions Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions	Add and subtract fractions with the same denominator and multiples of the same number Add and subtract fractions with different denominators and mixed numbers, using the	a denominator of a multiple of 10 or 25 Find a percentage of a number using mental methods (or find the percentage e.g. 10 is what percent of 100?) Solve problems involving percentages.	whole numbers. Fractions 8 Find non-unit fractions of quantities. compare and order fractions whose denominators are all multiples of the same number
a mixed number (e.g. 2/5 + 4/5 = 6/5 = 1 1/5) Multiplication and I	Division of Fractions	concept of equivalent fractions. Recognise mixed numbers	Fractions 4 Multiply simple pairs of proper fractions, writing	Identify, name and write equivalent fractions of a given fraction,
Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams	Multiply simple pairs of proper fractions, writing the answer in its simplest form (e.g. $\frac{1}{4} \times \frac{1}{2} = 1/8$) Multiply one-digit numbers with up to two decimal places by whole numbers	and improper fractions and convert from one form to the other and write mathematical statements > 1 as a mixed number (e.g. 2/5 + 4/5 =	the answer in its simplest form (e.g. $\frac{1}{4} \times \frac{1}{2} = 1/8$) Multiply one-digit numbers with up to two decimal places by whole	represented visually, including tenths and hundredths Recognise mixed numbers and improper fractions
AAultiplication and	Divide proper fractions by whole numbers (e.g. 1/3 ÷ 2 = 1/6) Division of Decimals	6/5 = 1 1/5)	numbers	and convert from one form to the other and
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 ones, tenths and hundredths	Multiply one-digit numbers with up to two decimal places by whole numbers Multiply and divide numbers by 10, 100 and 1000 where the answers are up to three decimal places Identify the value of each digit to three decimal places and multiply and divide numbers by 10, 100 and 1000 where the answers are up to three decimal places Associate a fraction with division and calculate decimal fraction equivalents (e.g. 0.375) for a simple fraction (e.g. 3/8)	Fractions 2 Multiply and divide by 10, 100 and 1000 (up to three places) Identify the value of each digit to two or three decimal places. Round decimals to nearest whole and one place. Solve problems which require rounding.	Divide proper fractions by whole numbers (e.g. 1/3 ÷ 2 = 1/6) Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams Add and subtract	write mathematical statements > 1 as a mixed number (e.g. 2/5 + 4/5 = 6/5 = 1 1/5) Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams Fractions 9 Multiply one-digit numbers with up to two decimal places by whole numbers Multiply and divide
	Use written division methods in cases where the answer has up to two decimal places Solving		fractions with the same denominator and multiples of the same number	numbers by 10, 100 and 1000 where the answers are up to three decimal
Solve problems which require knowing percentage and decimal equivalents of $\frac{1}{2}$, $\frac{1}{4}$,				places

1/5, 2/5, 4/5 and those with a denominator of a multiple of 10 or 25		Fractions 5 Add and subtract fractions with different	Identify the value of ead
solve problems involving numbers up to three decimal places	gress Criteria	denominators and mixed numbers, using concept of equivalent fractions.	places and multiply and divide numbers by 10, 100 and 1000 where the
5F-1 Find non-unit fractions of quantities. 5F-2 Find equivalent fractions and understand that they have the same value and the same position in the linear number system. 5F-3 Recall decimal fraction equivalents for ½. ¼, 1/5 and 1/10, and for multiples of these proper fractions. 5G-1 Compare angles, estimate and measure angles in degrees (°) and draw angles of a given size.	6F-1 Recognise when fractions can be simplified, and use common factors to simplify fractions. 6F-2 Express fractions in a common denomination and use this to compare fractions that are similar in value. 6F-3 Compare fractions with different denominators, including fractions greater than 1, using reasoning, and choose between reasoning and common denomination as a comparison strategy.	equivalent practions.	answers are up to three decimal places

Ratio and Proportion					
YEAR 5 NC Objectives	YEAR 6 NC Objectives	Autumn Content Y5/6 and <mark>Y6</mark>	Spring Content Y5/6 and <mark>Y6</mark>	Summer Content Y5/6 and Y6	
	Solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts Solve problems involving the calculation of percentages [for example, of measures, and such as 15% of 360] and the use of percentages for comparison Solve problems involving similar shapes where the scale factor is known or can be found Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples.	7370 and 70	Ratio and Proportion 1 Solve problems involving the calculation of percentages [for example, of measures, and such as 15% of 360] and the use of percentages for comparison. Ratio and Proportion 2 Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples. Solve % problems.	Ratio and Proportion 3 Solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts (use a:b notation) Solve problems involving ratio and proportion e.g. recipes. Solve problems involving similar shapes where the scale factor is known or can be found Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples e.g. 3/5 of class are boys;	

for every egg, you need	
three spoonfuls of flour	

	Algebra			
YEAR 5 NC Objectives	YEAR 6 NC Objectives	Autumn Content	Spring Content	Summer Content
Eq	uations	Y5/6 and Y6	Y5/6 and Y6	Y5/6 and Y6
Use the properties of rectangles to deduce related facts and find missing lengths and angles	Express missing number problems algebraically Find pairs of numbers that satisfy number		Algebra 1 Express missing number problems algebraically	Algebra 3 Express missing number problems algebraically.
	sentences involving two unknowns		Find pairs of numbers	Find pairs of numbers
	Enumerate all possibilities of combinations of two variables		that satisfy number sentences involving two	that satisfy number sentences involving two
Fo	rmulae Use simple formulae		unknowns Enumerate all possibilities	unknowns e.g. a pair of numbers that sum to 10 and have product of 24 =
	Recognise when it is possible to use formulae for area and volume of shapes		of combinations of two variables.	6 and 4)
Sec	quences			Use simple formulae.
	Generate and describe linear number sequences		Use simple formulae	
			Recognise when it is possible to use formulae	
			for area and volume of shapes	
			Use the properties of rectangles to deduce related facts and find missing lengths and angles	
			Algebra 2 Generate and describe linear number sequences	

Measurement				
YEAR 5 NC Objectives	YEAR 6 NC Objectives	Autumn Content	Spring Content	Summer Content
Comparing and Estimating		Y5/6 and Y6	Y5/6 and Y6	Y5/6 and Y6
Calculate and compare the area of squares and	Calculate, estimate and	Measures 1	Measures 3	Measures 5
rectangles including using standard units, square	compare volume of cubes and cuboids using	Measure and calculate the	Solve problems involving	Solve problems involving
centimetres (cm²) and square metres (m²) and	standard units, including centimetre cubed (cm³)	perimeter of composite	converting between units	the calculation and

estimate the area of irregular shapes (also	and cubic metres (m³)	rectilinear shapes in	of time.	conversion of units of
included in measuring)	and extending to other units such as mm ³ and	centimetres and metres		measure, using decimal
	km ³		Convert between	notation up to three
Estimate volume (e.g. using 1 cm³ blocks to build		Calculate and compare the	different units of metric	decimal places where
cubes and cuboids) and capacity (e.g. using		area of squares and	measures – focus on mass	appropriate.
water)		rectangles including using	and capacity.	
Measuring an	nd Calculating	standard units, square		Use, read, write and
Use all four operations to solve problems	Solve problems involving the calculation and	centimetres (cm²) and	Use all four operations to	convert between all
involving measure (e.g. length, mass, volume,	conversion of units of measure, using decimal	square metres (m²) and	solve problems involving	standard metric units.
money) using decimal notation	notation up to three decimal places where	estimate the area of	measure, especially	
including scaling	appropriate (appears also in Converting)	irregular shapes	MONEY using decimal	Calculate area of squares,
			notation.	and rectangles, estimate
Measure and calculate the perimeter of	Recognise that shapes with the same areas can	Recognise when it is		irregular shapes.
composite rectilinear shapes in centimetres and	have different perimeters and vice versa	possible to use formulae	Measures 4	
metres		for area of shapes.		Calculate area of triangles
	Calculate the area of parallelograms and		Calculate, estimate and	and parallelograms.
Calculate and compare the area of squares and	triangles	Recognise that shapes	compare volume of cubes	
rectangles including using standard units, square		with the same areas can	and cuboids using	Recognise when formulae
centimetres (cm²) and square metres (m²) and	Calculate, estimate and compare volume of	have different	standard units, including	can be used for area and
estimate the area of irregular shapes	cubes and cuboids using standard units, including	perimeters and vice versa	cubic centimetres (cm³)	volume.
recognise and use square numbers and cube	cubic centimetres (cm³) and cubic metres (m³)		and cubic metres (m ³) and	
numbers, and the notation for squared	and extending to other units [e.g. mm³ and km³]	Calculate the area of	extending to other units	Understand and use
(2) and cubed (3)		parallelograms and	[e.g. mm³ and km³]	equivalences between
	Recognise when it is possible to use formulae	triangles		metric units and common
	for area and volume of shapes			imperial units such as
	the Time	Measures 2		inches, pounds and pints.
Solve problems involving converting between				
units of time		Convert between		Convert miles and
	erting	different units of metric		kilometres.
Convert between different units of metric	Use, read, write and convert between standard	measure – focus length.		
measure (e.g. kilometre and metre; centimetre	units, converting measurements of length, mass,			
and metre; centimetre and millimetre; gram and	volume and time from a smaller unit of measure	Convert between standard		
kilogram; litre and millilitre)	to a larger unit, and vice versa, using decimal	units, converting		
	notation to up to three decimal places	measurements of length,		
Solve problems involving converting between		using decimal notation to		
units of time	Solve problems involving the calculation and	up to three decimal		
	conversion of units of measure, using decimal	places.		
Understand and use equivalences between	notation up to three decimal places where	Solve problems involving		
metric units and common imperial units such as	appropriate	converting units of		
inches, pounds and pints		measure.		
	Convert between miles and kilometres	meusure.		
		Convert between miles		
		and kilometres		
	1	1,e.,,e.,, ee		

Geometry - Properties of Shape				
YEAR 5 NC Objectives	YEAR 6 NC Objectives	Autumn Content	Spring Content	Summer Content
	and their Properties	Y5/6 and Y6	Y5/6 and Y6	Y5/6 and Y6
Identify 3-D shapes, including cubes and other cuboids, from 2-D representations Drawing and Draw given angles, and measure them in degrees	Recognise, describe and build simple 3-D shapes, including making nets (appears also in Drawing and Constructing) Illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius Constructing Draw 2-D shapes using given dimensions and	Geometry 1 Illustrate and name parts of circles. Know angles are measured in degrees, estimate and compare angles. Identify angles at a point,		Geometry 2 Compare and classify geometric shapes based on their properties and sizes and find unknown angles. Distinguish between regular and irregular polygons.
(°)	angles Recognise, describe and build simple 3-D shapes, including making nets	on a straight line and multiples of 90 degrees. Recognise vertically		Geometry 3 Identify 3-D shapes
Comparing a	nd Classifying	opposite angles and		, ,
Use the properties of rectangles to deduce related facts and find missing lengths and angles Distinguish between regular and irregular polygons based on reasoning about equal sides and angles An Know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles Identify: * angles at a point and one whole turn (total 3600)	their properties and sizes and find unknown angles in any triangles, quadrilaterals, and regular polygons Ingles Recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles	calculate missing angles.		Recognise, build 3-D shapes and make nets. Illustrate and name parts of a circle. Draw angles and measure them. Distinguish between regular and irregular polygons. Draw 2D shapes
* angles at a point on a straight line and $\frac{1}{2}$ a turn (total 180o) * other multiples of 90o	gress Criteria 6G-1 Draw, compose, and decompose shapes according to given properties, including dimensions, angles and area, and solve related problems.			

Geometry - Position and Direction				
YEAR 5 NC Objectives	YEAR 6 NC Objectives	Autumn Content	Spring Content	Summer Content
Geometry - Position, Direction and Movement		Y5/6 and Y6	Y5/6 and Y6	Y5/6 and Y6
Identify, describe and represent the position of	Describe positions on the full coordinate grid	Geometry 1		Geometry 2
a shape following a reflection or translation,	(all four quadrants)	Describe position in one		Describe positions on the
using the appropriate language, and know that		quadrant or full		full coordinate grid (all
the shape has not changed	Draw and translate simple shapes on the	coordinate grid.		four quadrants)
	coordinate plane, and reflect them in the axes.			
		Describe a shape		Draw and translate simple
		following translation or		shapes on the coordinate
		reflection.		plane, and reflect them in
				the axes.
				Identify, describe and
				represent the position of
				a shape following a
				reflection or translation

Statistics				
YEAR 5 NC Objectives	YEAR 6 NC Objectives	Autumn Content	Spring Content	Summer Content
Interpreting, Construct	ting and Presenting Data	Y5/6 and Y6	Y5/6 and Y6	Y5/6 and Y6
Complete, read and interpret information in	Interpret and construct pie charts and line		Statistics 1	Statistics 3
tables, including timetables	graphs and use these to solve problems		Calculate and interpret	Interpret and construct
Solving I	Problems		the mean as an average	pie charts and line graphs
Solve comparison, sum and difference problems	Calculate and interpret the mean as an average			and use these to solve
using information presented in a line graph			Solve comparison, sum and	problems.
			difference problems using	
			information presented in	Use information in line
			a line graph.	graphs to solve problems.
			Complete, read and	
			interpret information in	
			tables, including	
			timetables	
			Statistics 2	
			Calculate mean average	
			Interpret and construct	
			line graphs and use for	
			solving problems	