Whole School Domain Progression

		Numbe	er and place value; ap	proximation and estimation	ation / rounding (KS2)		
Strand	Early Years outcomes	National Curriculum reference Year 1	National Curriculum reference Year 2	National Curriculum reference Year 3	National Curriculum reference Year 4	National Curriculum reference Year 5	National Curriculum reference Year 6
N1	Nursery Outcomes Recite numbers past 5. Say one number name for each item from 1-5. Know that the last number reached when	1N1a Count to and across 100, forward and backwards, beginning with 0 or 1, or from any given number	2N1 Count in steps of 2, 3, and 5 from 0, and in tens from any number, forward or backward		4N1 Count in multiples of 6, 7, 9, 25 and 1000	5N1 Count forwards or backwards in steps of powers of 10 for any given number up to 1 000 000	
Counting (in multiples)	counting a set of objects tells you have many there is in total.	1N1b Count in multiples of twos, fives and tens		3N1b Count from 0 in multiples of 4, 8, 50 and 100			
	Reception Outcomes (ELG) Verbally count beyond 20, recognising the pattern of the counting system.						
	Nursery Outcomes Link numerals and amounts: for example, showing the right number of objects to match the numeral, up to 5. Experiment with their own symbols and marks as well as numerals.		2N2a Read and write numbers to at least 100 in numerals and in words	3N2a Compare and order numbers up to 1000 Read and write numbers to 1000 in numerals and in words	4N2a Order and compare numbers beyond 1000	5N2 Read, write, order and compare numbers to at least 1 000 000	6N2 Read, write, order and compare numbers up to 10 000 000
N2 Read, write, order and	Reception Outcome Link the number symbol (numeral) with its cardinal number value. (1-10)						
compare	Nursery Outcomes Compare quantities saying 'lots' 'more' and 'same'.	1N2b Given a number, identify one more and one less	2N2b Compare and order numbers from 0 up to 100; use <, > and = signs	3N2b Find 10 or 100 more or less than a given number	4N2b Find 1000 more or less than a given number		
	Reception Outcomes (ELG) Compare quantities up to 10 in different contexts, recognising when one quantity is greater than, less than or the same as the other quantity.	1N2c Read and write numbers from 1 to 20 in numerals and words					
N3 Place value;			2N3 Recognise the place value of each digit in a two-digit number (tens, ones)	Recognise the place value of each digit in a three-digit number (hundreds, tens, ones)	4N3a Recognise the place value of each digit in a four-digit number (thousands, hundreds, tens and ones)	5N3a Determine the value of each digit in numbers up to 1 000 000	6N3 Determine the value of each digit in numbers up to 10 000 000
Roman numerals					4N3b Read Roman numerals to 100 (I to C) and know that over time, the numeral system changed to include the	5N3b Read Roman numerals to1000 (M) and recognise years written in Roman numerals	

					concept of zero and place		
	Nursery Outcomes	1N4	2N4	3N4	value 4N4a	5N4	6N4
N4 Identify, represent and estimate;	Nursery Outcomes Show 'finger numbers' up to 5. Subitise up to 3 objects. Link numerals and amounts: for example, showing the right number of objects up to 5. Reception Outcome (ELG) Link numeral with cardinal	Identify and represent numbers using objects and pictorial representations including the number line, and use the language of: equal to, more than, less than (fewer), most, least	Identify, represent and estimate numbers using different representations, including the number line	Identify, represent and estimate numbers using different representations	Identify, represent and estimate numbers using different representations	Round any number up to 1 000 000 to the nearest 10, 100, 1000, 10 000 and 100 000	Round any whole number to a required degree of accuracy
rounding	number value (1-10) Subitise (recognise quantities without counting) up to 5				4N4b Round any number to the nearest 10, 100 or 1000		
N5 Negative numbers					4N5 Count backwards through zero to include negative numbers	5N5 Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero	GN5 Use negative numbers in context, and calculate intervals across zero
N6 Number problems			2N6 Use place value and number facts to solve problems	3N6 Solve number problems and practical problems involving 3N1–3N5	4N6 Solve number and practical problems that involve 4N1– 4N5 and with increasingly large positive numbers	5N6 Solve number problems and practical problems that involve 5N1–5N5	6N6 Solve number problems and practical problems that involve 6N2–6N5
		Add	ition, subtraction, mu	Iltiplication and divisi	on (calculations)		
Strand	Early Years outcomes	Add National Curriculum reference Year 1	ition, subtraction, mu National Curriculum reference Year 2	Iltiplication and divisi National Curriculum reference Year 3	on (calculations) National Curriculum reference Year 4	National Curriculum reference Year 5	National Curriculum reference Year 6

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- a two-digit number and ones - two two-digit numbers and tens - two two-digit numbers and two-digit numbers and two two-digits numb
Subtract using written methods Read write and interpret subtraction (-) and equals (-) and equa
Subtract Using written To two two-digit numbers Subtraction (-) and equals (-) signs Subtraction (-) and equal (-) and equals (-) signs Subtraction (-) and equals (-) and equ
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1C4 Solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems = 0 - 9 =
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solve problems number problems such as 7 = numbers, quantities and measures - applying their increasing knowledge of mental and written methods SC5a Identify multiples and factors, including finding all factor pairs of a number and common factors of two numbers SC5b SC5b SC5b
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- applying their increasing knowledge of mental and written methods - applying their increasing knowledge of mental and written methods - SCSa Identify multiples and factors, including finding all factor pairs of a number and common factors of two numbers of two numbers, prime factors and composite (non-prime) numbers of two numbers
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numbers and cube numbers,
and the notation for squared
(2) and cubed (3)
2C6 3C6 4C6a 5C6a 6C6
C6 Recall and use multiplication
and division facts for the 2, 5

					T 5 11 11 11 11 1	T	
Multiply /			and 10 multiplication tables,	Recall and use multiplication	Recall multiplication and	Multiply and divide numbers	Perform mental calculations,
divide			including recognising odd and	and division facts for the 3, 4	division facts for multiplication	mentally drawing upon known	including with mixed
mentally			even numbers	and 8 multiplication tables	tables up to 12 x 12	facts	operations and large numbers
montany					4C6b	5C6b	
					Use place value, known and	Multiply and divide whole	
					derived facts to multiply and	numbers and those involving	
					divide mentally, including:	decimals by 10, 100 and 1000	
						decimals by 10, 100 and 1000	
					multiplying by 0 and 1;		
					dividing by 1; multiplying		
					together three numbers		
					4C6c		
					Recognise and use factor		
					pairs and commutativity in		
					mental calculations		
			2C7	3C7	4C7	5C7a	6C7a
			Calculate mathematical	Write and calculate	Multiply two-digit and three-	Multiply numbers up to 4	Multiply multi-digit numbers
			statements for multiplication	mathematical statements for	digit numbers by a one-digit	digits by a one-or two-digit	up to 4 digits by a two-digit
			and division within the	multiplication and division	number using formal written	number using a formal written	whole number using the
			multiplication tables and write	using the multiplication tables	layout	method, including long	formal written method of long
			them using the multiplication	that children know, including	layout	multiplication for two-digit	multiplication
							multiplication
			(x), division (÷) and equals (=)	for two-digit numbers times		numbers	
			signs	one-digit numbers, using			
				mental and progressing to			
				formal written methods			
C7						5C7b	6C7b
						Divide numbers up to 4 digits	Divide numbers up to 4 digits
Multiply /						by a one-digit number using	by a two-digit whole number
divide						the formal written method of	using the formal written
using						short division and interpret	method of long division, and
written							
						remainders appropriately for	interpret remainders as whole
methods						the context	number remainders, fractions,
							or by rounding, as appropriate
							for the context
							6C7c
							Divide numbers up to 4 digits
							by a two-digit number using
							the formal written method of
							short division where
							appropriate, interpreting
							remainders according to the
							context
00	Nursery Outcomes	1C8	2C8	3C8	4C8	5C8a	6C8
C8	Solve some real-world	Solve one-step problems	Solve problems involving	Solve problems, including	Solve problems involving	Solve problems involving	Solve problems involving
Solve	mathematical problems with	involving multiplication and	multiplication and division,	missing number problems,	multiplying and adding,	multiplication and division	addition, subtraction,
problems	•	division, by calculating the	using materials, arrays,	involving multiplication and	including using the distributive		multiplication and division
•	numbers up to 5,						muniphication and division
(commut		answer using concrete	repeated addition, mental	division, including integer	law to multiply two-digit	knowledge of factors and	
ative,	Reception Outcomes (ELG)	objects, pictorial	methods, and multiplication	scaling problems and	numbers by one digit, integer	multiples, squares and cubes	
associativ	Explore and represent	representations and arrays	and division facts, including	correspondence problems in	scaling problems and harder		
e,		with the support of the	problems in contexts	which n objects are	correspondence problems		
	patterns within numbers up to	teacher		connected to m objects	such as n objects are		
distributiv	10, including evens and odds,			221313313313 11 32,0010	connected to m objects		
e and all	double facts and how				Commodica to in objects		
four							
	quantities can be distributed						
operation	evenly.						
s)	, i						
			1			i	1

C9 Order of operation s			2C9a Show that addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot 2C9b Show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot			Solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign 5C8c Solve problems involving multiplication and division including scaling by simple fractions and problems involving simple rates	6C9 Use their knowledge of the order of operations to carry out calculations involving the four operations
			Erections d	onimals and naveants			
		National Curriculum	National Curriculum	ecimals and percenta National Curriculum	National Curriculum	National Curriculum	National Curriculum
Strand	Early Years outcomes	reference Year 1	reference Year 2	reference Year 3	reference Year 4	reference Year 5	reference Year 6
F1 Recognis e, find, write,	Reception Outcomes Halving and sharing objects practically.	of an object, shape or quantity	2F1a Recognise, find, name and write fractions 1/3, ¼, 2/4 and ¾ of a length, shape, set of objects or quantity	3F1a Count up and down in tenths; recognise that tenths arise from dividing an object into 10 equal parts and in dividing one-digit numbers or quantities by 10	4F1 Count up and down in hundredths; recognise that hundredths arise when dividing an object by a hundred and dividing tenths by ten		
name and count fractions		1F1b Recognise, find and name a quarter as one of four equal parts of an object, shape or quantity	2F1b Write simple fractions [e.g.: ½ of 6 = 3]	3F1b Recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators 3F1c Recognise and use			

			1		
		fractions as numbers:			
		unit fractions and non-unit			
		fractions with small			
		denominators			
	2F2	3F2	4F2	5F2a	6F2
					Use common factors to
	Recognise the equivalence of	Recognise and show, using	Recognise and show, using	Recognise mixed numbers	
	2/4 and 1/2	diagrams, equivalent fractions		and improper fractions and	simplify fractions; use
		with small denominators	equivalent fractions	convert from one form to the	common multiples to express
				other; write mathematical	fractions in the same
F2				statements >1 as a mixed	denomination
				number [e.g.: 2/5 + 4/5 = 6/5=	
Equivalen				1 1/5]	
t fractions				5F2b	
				Identify name and write	
				equivalent fractions of a given	
				fraction, represented visually,	
				including tenths and	
				hundredths	
F3		3F3		5F3	6F3
Comparin		Compare and order unit		Compare and order fractions	Compare and order
		fractions and fractions with		whose denominators are all	fractions, including
g and		the same denominators		multiples of the same number	fractions >1
ordering		life same denominators			Tractions >1
fractions					
		3F4	4F4	5F4	6F4
F4		_	Add and subtract fractions	Add and subtract fractions	Add and subtract fractions
Add /		Add and subtract fractions	with the same denominator	with the same denominator	with different denominators
		with the same denominator	with the same denominator		
subtract		within one whole [e.g.: 5/7 +		and denominators that are	and mixed numbers, using the
fractions		1/7= 6/7]		multiples of the same number	concept of equivalent
					fractions
				5F5	6F5a
				Multiply proper fractions and	Multiply simple pairs of proper
				mixed numbers by whole	fractions, writing the answer
				numbers, supported by	in its simulant forms [s. m. 1/
F5					i in its simplest form le.a.: ½ 🗴 i
Multiply /					in its simplest form [e.g.: $\frac{1}{4} \times \frac{1}{8}$]
				materials and diagrams	in its simplest form [e.g.: $\frac{1}{2}$ = 1/8]
divida					
divide					
divide fractions -					1/2 = 1/8]
					½ = 1/8]
					½ = 1/8] 6F5b Divide proper fractions by
					1/2 = 1/8] 6F5b Divide proper fractions by whole numbers [e.g.: 1/3 ÷ 2
				materials and diagrams	$\frac{6F5b}{b}$ Divide proper fractions by whole numbers [e.g.: $\frac{1}{3} \div 2$ = $\frac{1}{6}$
			4F6a	materials and diagrams 5F6a	$\frac{6F5b}{b}$ Divide proper fractions by whole numbers [e.g.: $\frac{1}{3} \div 2$ = $\frac{1}{6}$]
fractions -			Recognise and write decimal	materials and diagrams 5F6a Read and write decimal	$\frac{6F5b}{Divide proper fractions by whole numbers [e.g.: \frac{1}{3} \div 2 = \frac{1}{6}] 6F6 Associate a fraction with$
fractions -				materials and diagrams 5F6a	$\frac{6F5b}{b}$ Divide proper fractions by whole numbers [e.g.: $\frac{1}{3} \div 2$ = $\frac{1}{6}$]
fractions -			Recognise and write decimal	materials and diagrams 5F6a Read and write decimal	6F5b Divide proper fractions by whole numbers [e.g.: 1/3 ÷ 2 = 1/6] 6F6 Associate a fraction with division to calculate decimal
fractions -			Recognise and write decimal	materials and diagrams 5F6a Read and write decimal numbers as fractions [e.g.:	6F5b Divide proper fractions by whole numbers [e.g.: 1/3 ÷ 2 = 1/6] 6F6 Associate a fraction with division to calculate decimal fraction equivalents (e.g.:
F6 Fractions			Recognise and write decimal	materials and diagrams 5F6a Read and write decimal numbers as fractions [e.g.:	6F5b Divide proper fractions by whole numbers [e.g.: 1/3 ÷ 2 = 1/6] 6F6 Associate a fraction with division to calculate decimal fraction equivalents (e.g.: 0.375) for a simple fraction
F6 Fractions / decimals			Recognise and write decimal equivalents to 1/4, 1/2, 3/4	materials and diagrams 5F6a Read and write decimal numbers as fractions [e.g.: 0.71 = 71/100]	6F5b Divide proper fractions by whole numbers [e.g.: 1/3 ÷ 2 = 1/6] 6F6 Associate a fraction with division to calculate decimal fraction equivalents (e.g.:
F6 Fractions / decimals equivalen			Recognise and write decimal equivalents to 1/4, 1/2, 3/4	5F6a Read and write decimal numbers as fractions [e.g.: 0.71 = 71/100]	6F5b Divide proper fractions by whole numbers [e.g.: 1/3 ÷ 2 = 1/6] 6F6 Associate a fraction with division to calculate decimal fraction equivalents (e.g.: 0.375) for a simple fraction
F6 Fractions / decimals			Recognise and write decimal equivalents to ¼, ½, 3/4 4F6b Recognise and write decimal	secognise and diagrams 5F6a Read and write decimal numbers as fractions [e.g.: 0.71 = 71/100]	6F5b Divide proper fractions by whole numbers [e.g.: 1/3 ÷ 2 = 1/6] 6F6 Associate a fraction with division to calculate decimal fraction equivalents (e.g.: 0.375) for a simple fraction
F6 Fractions / decimals equivalen			Recognise and write decimal equivalents to ¼, ½, 3/4 4F6b Recognise and write decimal equivalents of any number of	5F6a Read and write decimal numbers as fractions [e.g.: 0.71 = 71/100] 5F6b Recognise and use thousandths and relate them	6F5b Divide proper fractions by whole numbers [e.g.: 1/3 ÷ 2 = 1/6] 6F6 Associate a fraction with division to calculate decimal fraction equivalents (e.g.: 0.375) for a simple fraction
F6 Fractions / decimals equivalen			Recognise and write decimal equivalents to ¼, ½, 3/4 4F6b Recognise and write decimal	sF6a Read and write decimal numbers as fractions [e.g.: 0.71 = 71/100] 5F6b Recognise and use thousandths and relate them to tenths, hundredths and	6F5b Divide proper fractions by whole numbers [e.g.: 1/3 ÷ 2 = 1/6] 6F6 Associate a fraction with division to calculate decimal fraction equivalents (e.g.: 0.375) for a simple fraction
F6 Fractions / decimals equivalen			Recognise and write decimal equivalents to ¼, ½, 3/4 4F6b Recognise and write decimal equivalents of any number of tenths or hundredths	sF6a Read and write decimal numbers as fractions [e.g.: 0.71 = 71/100] SF6b Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents	6F5b Divide proper fractions by whole numbers [e.g.: 1/3 ÷ 2 = 1/6] 6F6 Associate a fraction with division to calculate decimal fraction equivalents (e.g.: 0.375) for a simple fraction
F6 Fractions / decimals equivalen			Recognise and write decimal equivalents to ¼, ½, 3/4 4F6b Recognise and write decimal equivalents of any number of	sF6a Read and write decimal numbers as fractions [e.g.: 0.71 = 71/100] 5F6b Recognise and use thousandths and relate them to tenths, hundredths and	6F5b Divide proper fractions by whole numbers [e.g.: 1/3 ÷ 2 = 1/6] 6F6 Associate a fraction with division to calculate decimal fraction equivalents (e.g.: 0.375) for a simple fraction
F6 Fractions / decimals equivalen ce			Recognise and write decimal equivalents to ¼, ½, 3/4 4F6b Recognise and write decimal equivalents of any number of tenths or hundredths	sF6a Read and write decimal numbers as fractions [e.g.: 0.71 = 71/100] SF6b Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents	6F5b Divide proper fractions by whole numbers [e.g.: 1/3 ÷ 2 = 1/6] 6F6 Associate a fraction with division to calculate decimal fraction equivalents (e.g.: 0.375) for a simple fraction
F6 Fractions / decimals equivalen			Recognise and write decimal equivalents to ¼, ½, 3/4 4F6b Recognise and write decimal equivalents of any number of tenths or hundredths 4F7 Round decimals with one	sF6a Read and write decimal numbers as fractions [e.g.: 0.71 = 71/100] 5F6b Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents 5F7 Round decimals with two	6F5b Divide proper fractions by whole numbers [e.g.: 1/3 ÷ 2 = 1/6] 6F6 Associate a fraction with division to calculate decimal fraction equivalents (e.g.: 0.375) for a simple fraction
F6 Fractions / decimals equivalen ce			Recognise and write decimal equivalents to ¼, ½, 3/4 4F6b Recognise and write decimal equivalents of any number of tenths or hundredths 4F7	sF6a Read and write decimal numbers as fractions [e.g.: 0.71 = 71/100] SF6b Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents 5F7	6F5b Divide proper fractions by whole numbers [e.g.: 1/3 ÷ 2 = 1/6] 6F6 Associate a fraction with division to calculate decimal fraction equivalents (e.g.: 0.375) for a simple fraction

			T	
Rounding			whole number and to one	
decimals			decimal place	
[KS2]		150	550	
F8		4F8	5F8	
Compare		Compare numbers with the	Read, write, order and	
and order		same number of decimal	compare numbers with up to	
decimals		places up to two decimal	three decimal places	
		places		050-
		4F9		6F9a
		Find the effect of dividing a		Identify the value of each digit
		one- or two-digit number by 10 and 100, identifying the		to three decimal places and multiply and divide numbers
		value of the digits in the		by 10, 100 and 1000 giving
F9		answer as ones, tenths and hundredths		answers up to three decimal places
Multiply /		Hariareatris		6F9b
divide				Multiply one-digit numbers
				with up to two decimal places
decimals				by whole numbers
				6F9c
				Use written division methods
				in cases where the answer
				has up to two decimal places
				nao ap to two accimai piaces
	3F10	4F10a	5F10	6F10
	Solve problems that involve	Solve problems involving	Solve problems involving	Solve problems which require
	3F1–3F4	increasingly harder fractions	numbers up to three	answers to be rounded to
F10		to calculate quantities and	decimal places	specified degrees of accuracy
Solve		fractions to divide quantities,		,
problems		including non-unit fractions		
with		where the answer is a whole		
fractions		number		
and		4F10b		
decimals		Solve simple measure and		
		money problems involving		
		fractions and decimals to two		
		decimal places		
F11			5F11	6F11
Fractions			Recognise the per cent	Recall and use equivalences
/ decimal			symbol (%) and understand	between simple fractions,
			that per cent relates to	decimals and percentages,
percenta			'number of parts per hundred';	including in different contexts
ge			write percentages as a	
equivalen			fraction with denominator hundred, and as a decimal	
Ce			indiffured, and as a decimal	
			5F12	
F12			Solve problems which require	
Solve			knowing percentage and	
problems			decimal equivalents of ½, ¼,	
with			1/5, 2/5, 4/5 and those	
percenta			fractions with a denominator	
ges			of a multiple of 10 or 25	
		•		
	Ratio and proportion			

Strand	Early Years outcomes	National Curriculum reference Year 1	National Curriculum reference Year 2	National Curriculum reference Year 3	National Curriculum reference Year 4	National Curriculum reference Year 5	National Curriculum reference Year 6
R1 Relative sizes, similarity							6R1 Solve problems involving the relative sizes of two quantities, where missing values can be found by using integer multiplication and division facts
R2 Use of percentag es for compariso n							6R2 Solve problems involving the calculation of percentages [e.g.: of measures such as 15% of 360] and the use of percentages for comparison
R3 Scale factors							6R3 Solve problem involving similar shapes where the scale factor is known or can be found
R4 Unequal sharing and grouping							6R4 Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples
				Algebra			
Strand	Early Years outcomes	National Curriculum reference Year 1	National Curriculum reference Year 2	National Curriculum reference Year 3	National Curriculum reference Year 4	National Curriculum reference Year 5	National Curriculum reference Year 6
A1							6A1 Express missing number
Missing number problems expressed							problems algebraically
number problems expressed in algebra A2 Simple formulae expressed							
number problems expressed in algebra A2 Simple formulae							problems algebraically 6A2

two		1					1
unknowns							
A5							6A5
Enumerat e all							Enumerate possibilities of combinations of two variables
possibilitie							combinations of two variables
s of							
combinati							
ons of				Management			
		,		Measurement			
Strand	Early Years outcomes	National Curriculum reference Year 1	National Curriculum reference Year 2	National Curriculum reference Year 3	National Curriculum reference Year 4	National Curriculum reference Year 5	National Curriculum reference Year 6
	Reception Outcomes	1M1	2M1	3M1a	4M1		
		Compare, describe and solve	Compare and order lengths,	Compare lengths(m/cm/mm)	Compare different measures,		
	objects relating to their size, length, weight and capacity.	practical problems for: - lengths and heights [e.g.:	mass, volume/ capacity and record the results using >, <		including money in pounds and pence		
		long/short, longer/ shorter,	and =				
	Reception Outcomes Compare length, weight and	tall/short, double/half] - mass/weight [e.g.:					
M1	capacity.	heavy/light, heavier than,					
Compare, describe	, ,	lighter than]					
and order		- capacity and volume [e.g.: full/empty, more than, less					
measures		than, half, half full, quarter]					
		- time [e.g.: quicker, slower,					
		earlier, later]		3M1b			
				Compare mass (kg/g)			
				3M1c			
				Compare volume / capacity (I/ml)			
		1M2	2M2	3M2a	4M2		
		Measure and begin to record	Choose and use appropriate	Measure lengths (m/cm/mm)	Estimate different measures,		
		the following: - lengths and heights	standard units to estimate and measure length/height in any		including money in pounds and pence		
M2			direction (m/cm); mass (kg/g);		and pence		
Estimate,		 capacity and volume 	temperature (°C); capacity				
measure		- time (hours, minutes, seconds)	(litres/ml) to the nearest appropriate unit using rulers,				
and read		Seconds)	scales, thermometers and				
scales			measuring vessels				
				3M2b Measure mass (kg/g)			
				3M2c			
				Measure volume / capacity (I/ml)			
	Reception Outcome	1M3	2M3a				
М3	To use everyday language related to money.	Recognise and know the value of different	Recognise and use symbols for pounds (£) and pence (p):				
Money	related to money.	denominations of coins and	combine amounts to make a				
		notes	particular value				
			2M3b				

			Find different combinations of coins that equal the same				
			amounts of money				
	Reception Outcome	1M4a	2M4a	3M4a	4M4a		
	To use everyday language	Tell the time to the hour and	Tell and write the time to five	Tell and write the time from	Read, write and convert time		
	related to time.	half past the hour and draw	minutes, including quarter	an analogue clock; 12-hour	between analogue and digital		
		the hands on a clock face to	past/to the hour and draw the	clocks	12-hour clocks		
		show these times	hands on a clock face to show				
			these times				
		1M4b	2M4b	3M4b	4M4b		
		Sequence events in	Compare and sequence	Tell and write the time from	Read, write and convert time		
		chronological order using	intervals of time	an analogue clock; 24-hour	between analogue and digital		
		language [e.g.: before and		clocks	24-hour clocks		
		after, next, first, today, yesterday, tomorrow,					
		morning, afternoon and					
		evening]					
		1M4c	2M4c	3M4c	4M4c	5M4	
_M4		Recognise and use language	Know the number of minutes	Tell and write the time	Solve problems involving	Solve problems involving	
Telling		relating to dates, including	in an hour and the number of	from an analogue clock,	converting from hours to	converting between units of	
time,		days of the week, weeks,	hours in a day	including using Roman	minutes; minutes to seconds;	time	
ordering		months and years		numerals from I to XII	years to months; weeks to		
time,				0114.1	days		
duration				3M4d Estimate and read time with			
and units				increasing accuracy to the			
of time				nearest minute: record and			
				compare time in terms of			
				seconds, minutes and hours;			
				use vocabulary such as			
				o'clock/a.m./p.m., morning,			
				afternoon, noon and midnight			
				3M4e			
				Know the number of seconds in a minute and the number of			
				days in each month, year and			
				leap year			
				3M4f			
				Compare durations of events,			
				[e.g.: to calculate the time			
				taken by particular events or			
				tasks]	48		2007
					4M5	5M5	6M5
M5					Convert between different units of measurement [e.g.:	Convert between different units of metric measure [e.g.:	Use, read, write and convert between standard units,
Convert					kilometre to metre; hour to	kilometre and metre;	converting measurements of
between					minute]	centimetre and metre;	length, mass, volume and
metric						centimetre and millimetre;	time from a smaller unit of
units						gram and kilogram; litre and	measure to a larger unit, and
						millilitre]	vice versa, using decimal
							notation of up to three
							decimal places
						5M6	6M6
M6						Understand and use	Convert between miles and kilometres
						approximate equivalences between metric units and	KIIOITIEU ES
		I		1	l .	Solwoon motile units and	

_	1		ı			I .
Convert					common imperial units such	
metric/im					as inches, pounds and pints	
perial						
p c man			3M7	4M7a	5M7a	6M7a
			Measure the perimeter of	Measure and calculate the	Measure and calculate the	Recognise that shapes with
			simple 2–D shapes	perimeter of a rectilinear	perimeter of composite	the same areas can have
			Simple 2–D Shapes		rectilinear shapes in	
				figure (including squares) in	•	different perimeters and vice
				centimetres and metres	centimetres and metres	versa
				4M7b	5M7b	6M7b
				Find the area of rectilinear	Calculate and compare	Calculate the area of
				shapes by counting squares	the area of rectangles	parallelograms and triangles
M7					(including squares), and	
Perimeter					including using standard	
, area					units, square centimetres	
,					(cm²) and square metres (m²)	
					and estimate the	
					area of irregular shapes	
-					area er megarar emapee	6M7c
						Recognise when it is possible
						to use the formulae for the
						area of shapes
						area or snapes
					5M8	6M8a
					Estimate volume [e.g.: using	Calculate, estimate and
					1cm3 blocks to build cuboids	compare volume of cubes and
					(including cubes)] and	cuboids using standard units,
					capacity [e.g.: using water]	including centimetre cubed
M8						(cm³) and cubic metres (m³),
Volume						
						and extending to other units
-						
						and extending to other units [e.g.: mm³ and km³] 6M8b
						and extending to other units [e.g.: mm³ and km³] 6M8b Recognise when it is possible
						and extending to other units [e.g.: mm³ and km³] 6M8b Recognise when it is possible to use the formulae for the
		2MQ	3M9a	AMA	5M9a	and extending to other units [e.g.: mm³ and km³] 6M8b Recognise when it is possible to use the formulae for the volume of shapes
		2M9	3M9a	4M9	5M9a	and extending to other units [e.g.: mm³ and km³] 6M8b Recognise when it is possible to use the formulae for the volume of shapes 6M9
		Solve simple problems in a	Add and subtract amounts of	Calculate different measures,	Use all four operations to	and extending to other units [e.g.: mm³ and km³] 6M8b Recognise when it is possible to use the formulae for the volume of shapes 6M9 Solve problems involving the
		Solve simple problems in a practical context involving	Add and subtract amounts of money to give change, using	Calculate different measures, including money in pounds	Use all four operations to solve problems involving	and extending to other units [e.g.: mm³ and km³] 6M8b Recognise when it is possible to use the formulae for the volume of shapes 6M9 Solve problems involving the calculation and conversion of
		Solve simple problems in a practical context involving addition and subtraction of	Add and subtract amounts of money to give change, using both £ and p in practical	Calculate different measures,	Use all four operations to solve problems involving measure [money] using	and extending to other units [e.g.: mm³ and km³] 6M8b Recognise when it is possible to use the formulae for the volume of shapes 6M9 Solve problems involving the calculation and conversion of units of measure, using
MO		Solve simple problems in a practical context involving addition and subtraction of money of the same unit,	Add and subtract amounts of money to give change, using	Calculate different measures, including money in pounds	Use all four operations to solve problems involving measure [money] using decimal notation, including	and extending to other units [e.g.: mm³ and km³] 6M8b Recognise when it is possible to use the formulae for the volume of shapes 6M9 Solve problems involving the calculation and conversion of units of measure, using decimal notation up to three
M 9		Solve simple problems in a practical context involving addition and subtraction of	Add and subtract amounts of money to give change, using both £ and p in practical	Calculate different measures, including money in pounds	Use all four operations to solve problems involving measure [money] using	and extending to other units [e.g.: mm³ and km³] 6M8b Recognise when it is possible to use the formulae for the volume of shapes 6M9 Solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where
Solve		Solve simple problems in a practical context involving addition and subtraction of money of the same unit,	Add and subtract amounts of money to give change, using both £ and p in practical	Calculate different measures, including money in pounds	Use all four operations to solve problems involving measure [money] using decimal notation, including	and extending to other units [e.g.: mm³ and km³] 6M8b Recognise when it is possible to use the formulae for the volume of shapes 6M9 Solve problems involving the calculation and conversion of units of measure, using decimal notation up to three
		Solve simple problems in a practical context involving addition and subtraction of money of the same unit,	Add and subtract amounts of money to give change, using both £ and p in practical	Calculate different measures, including money in pounds	Use all four operations to solve problems involving measure [money] using decimal notation, including	and extending to other units [e.g.: mm³ and km³] 6M8b Recognise when it is possible to use the formulae for the volume of shapes 6M9 Solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where
Solve		Solve simple problems in a practical context involving addition and subtraction of money of the same unit,	Add and subtract amounts of money to give change, using both £ and p in practical contexts	Calculate different measures, including money in pounds	Use all four operations to solve problems involving measure [money] using decimal notation, including scaling	and extending to other units [e.g.: mm³ and km³] 6M8b Recognise when it is possible to use the formulae for the volume of shapes 6M9 Solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where
Solve problems (a:		Solve simple problems in a practical context involving addition and subtraction of money of the same unit,	Add and subtract amounts of money to give change, using both £ and p in practical contexts	Calculate different measures, including money in pounds	Use all four operations to solve problems involving measure [money] using decimal notation, including scaling	and extending to other units [e.g.: mm³ and km³] 6M8b Recognise when it is possible to use the formulae for the volume of shapes 6M9 Solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where
Solve problems (a: money; b:		Solve simple problems in a practical context involving addition and subtraction of money of the same unit,	Add and subtract amounts of money to give change, using both £ and p in practical contexts 3M9b Add and subtract lengths	Calculate different measures, including money in pounds	Use all four operations to solve problems involving measure [money] using decimal notation, including scaling 5M9b Use all four operations to	and extending to other units [e.g.: mm³ and km³] 6M8b Recognise when it is possible to use the formulae for the volume of shapes 6M9 Solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where
Solve problems (a: money; b: length; c:		Solve simple problems in a practical context involving addition and subtraction of money of the same unit,	Add and subtract amounts of money to give change, using both £ and p in practical contexts	Calculate different measures, including money in pounds	Use all four operations to solve problems involving measure [money] using decimal notation, including scaling 5M9b Use all four operations to solve problems involving	and extending to other units [e.g.: mm³ and km³] 6M8b Recognise when it is possible to use the formulae for the volume of shapes 6M9 Solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where
Solve problems (a: money; b: length; c: mass /		Solve simple problems in a practical context involving addition and subtraction of money of the same unit,	Add and subtract amounts of money to give change, using both £ and p in practical contexts 3M9b Add and subtract lengths	Calculate different measures, including money in pounds	Use all four operations to solve problems involving measure [money] using decimal notation, including scaling 5M9b Use all four operations to solve problems involving measure [e.g.: length] using	and extending to other units [e.g.: mm³ and km³] 6M8b Recognise when it is possible to use the formulae for the volume of shapes 6M9 Solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where
Solve problems (a: money; b: length; c: mass / weight; d:		Solve simple problems in a practical context involving addition and subtraction of money of the same unit,	Add and subtract amounts of money to give change, using both £ and p in practical contexts 3M9b Add and subtract lengths	Calculate different measures, including money in pounds	Use all four operations to solve problems involving measure [money] using decimal notation, including scaling 5M9b Use all four operations to solve problems involving measure [e.g.: length] using decimal notation, including	and extending to other units [e.g.: mm³ and km³] 6M8b Recognise when it is possible to use the formulae for the volume of shapes 6M9 Solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where
Solve problems (a: money; b: length; c: mass /		Solve simple problems in a practical context involving addition and subtraction of money of the same unit,	Add and subtract amounts of money to give change, using both £ and p in practical contexts 3M9b Add and subtract lengths (m/cm/mm)	Calculate different measures, including money in pounds	Use all four operations to solve problems involving measure [money] using decimal notation, including scaling 5M9b Use all four operations to solve problems involving measure [e.g.: length] using decimal notation, including scaling	and extending to other units [e.g.: mm³ and km³] 6M8b Recognise when it is possible to use the formulae for the volume of shapes 6M9 Solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where
Solve problems (a: money; b: length; c: mass / weight; d: capacity /		Solve simple problems in a practical context involving addition and subtraction of money of the same unit,	Add and subtract amounts of money to give change, using both £ and p in practical contexts 3M9b Add and subtract lengths (m/cm/mm)	Calculate different measures, including money in pounds	Use all four operations to solve problems involving measure [money] using decimal notation, including scaling 5M9b Use all four operations to solve problems involving measure [e.g.: length] using decimal notation, including scaling 5M9c	and extending to other units [e.g.: mm³ and km³] 6M8b Recognise when it is possible to use the formulae for the volume of shapes 6M9 Solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where
Solve problems (a: money; b: length; c: mass / weight; d:		Solve simple problems in a practical context involving addition and subtraction of money of the same unit,	Add and subtract amounts of money to give change, using both £ and p in practical contexts 3M9b Add and subtract lengths (m/cm/mm)	Calculate different measures, including money in pounds	Use all four operations to solve problems involving measure [money] using decimal notation, including scaling 5M9b Use all four operations to solve problems involving measure [e.g.: length] using decimal notation, including scaling 5M9c Use all four operations to	and extending to other units [e.g.: mm³ and km³] 6M8b Recognise when it is possible to use the formulae for the volume of shapes 6M9 Solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where
Solve problems (a: money; b: length; c: mass / weight; d: capacity /		Solve simple problems in a practical context involving addition and subtraction of money of the same unit,	Add and subtract amounts of money to give change, using both £ and p in practical contexts 3M9b Add and subtract lengths (m/cm/mm)	Calculate different measures, including money in pounds	Use all four operations to solve problems involving measure [money] using decimal notation, including scaling 5M9b Use all four operations to solve problems involving measure [e.g.: length] using decimal notation, including scaling 5M9c Use all four operations to solve problems involving	and extending to other units [e.g.: mm³ and km³] 6M8b Recognise when it is possible to use the formulae for the volume of shapes 6M9 Solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where
Solve problems (a: money; b: length; c: mass / weight; d: capacity /		Solve simple problems in a practical context involving addition and subtraction of money of the same unit,	Add and subtract amounts of money to give change, using both £ and p in practical contexts 3M9b Add and subtract lengths (m/cm/mm)	Calculate different measures, including money in pounds	Use all four operations to solve problems involving measure [money] using decimal notation, including scaling 5M9b Use all four operations to solve problems involving measure [e.g.: length] using decimal notation, including scaling 5M9c Use all four operations to solve problems involving measure [e.g.: mass] using	and extending to other units [e.g.: mm³ and km³] 6M8b Recognise when it is possible to use the formulae for the volume of shapes 6M9 Solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where
Solve problems (a: money; b: length; c: mass / weight; d: capacity /		Solve simple problems in a practical context involving addition and subtraction of money of the same unit,	Add and subtract amounts of money to give change, using both £ and p in practical contexts 3M9b Add and subtract lengths (m/cm/mm)	Calculate different measures, including money in pounds	Use all four operations to solve problems involving measure [money] using decimal notation, including scaling 5M9b Use all four operations to solve problems involving measure [e.g.: length] using decimal notation, including scaling 5M9c Use all four operations to solve problems involving measure [e.g.: mass] using	and extending to other units [e.g.: mm³ and km³] 6M8b Recognise when it is possible to use the formulae for the volume of shapes 6M9 Solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where
Solve problems (a: money; b: length; c: mass / weight; d: capacity /		Solve simple problems in a practical context involving addition and subtraction of money of the same unit,	Add and subtract amounts of money to give change, using both £ and p in practical contexts 3M9b Add and subtract lengths (m/cm/mm)	Calculate different measures, including money in pounds	Use all four operations to solve problems involving measure [money] using decimal notation, including scaling 5M9b Use all four operations to solve problems involving measure [e.g.: length] using decimal notation, including scaling 5M9c Use all four operations to solve problems involving	and extending to other units [e.g.: mm³ and km³] 6M8b Recognise when it is possible to use the formulae for the volume of shapes 6M9 Solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where

				3M9d Add and subtract volume / capacity (I/mI)		5M9d Use all four operations to solve problems involving measure [e.g.: volume] using decimal notation, including			
			2			scaling			
	Geometry: properties of shape								
Strand	Early Years outcomes	National Curriculum reference Year 1	National Curriculum reference Year 2	National Curriculum reference Year 3	National Curriculum reference Year 4	National Curriculum reference Year 5	National Curriculum reference Year 6		
G1 Recognis e and name common shapes	Beginning to talk about the shapes of everyday objects, e.g. 'round' and 'tall'. Shows interest in shape by sustained construction activity or by talking about shapes or arrangements. Talk about and explore 2D and 3D shapes (for example, circles, rectangles, triangles and cuboids) using informal and mathematical language: 'sides', 'corrers', 'ctraight'	1G1a Recognise and name common 2-D shapes [e.g.: rectangles (including squares), circles and triangles]	2G1a Compare and sort common 2- D shapes and everyday objects						
	'sides', 'corners', 'straight', 'flat'.	1G1b Recognise and name common 3-D shapes [e.g.: cuboids (including cubes), pyramids and spheres]	2G1b Compare and sort common 3- D shapes and everyday objects						
G2 Describe			Identify and describe the properties of 2-D shapes, including the number of sides and line symmetry in a vertical line	3G2 Identify horizontal, vertical lines and pairs of perpendicular and parallel lines	4G2a Compare and classify geometric shapes, including quadrilaterals and triangles based on their properties and sizes	Use the properties of rectangles to deduce related facts and find missing lengths and angles	6G2a Compare and classify geometric shapes based on their properties and sizes		
propertie s and classify shapes			2G2b Identify and describe the properties of 3-D shapes including the number of edges, vertices and faces		4G2b Identify lines of symmetry in 2–D shapes presented in different orientations	5G2b Distinguish between regular and irregular polygons based on reasoning about equal sides and angles	6G2b Describe simple 3–D shapes		
63			202	202-	4G2c Complete a simple symmetric figure with respect to a specific line of symmetry		6025		
G3 Draw and make shapes and			2G3 Identify 2-D shapes on the surface of 3-D shapes, [e.g.: a circle on a cylinder and a triangle on a pyramid]	3G3a Draw 2–D shapes			6G3a Draw 2–D shapes using given dimensions and angles		
relate 2-D to 3-D shapes (including nets)				3G3b Make 3–D shapes using modelling materials; recognise 3–D shapes in		5G3b Identify 3–D shapes including cubes and other cuboids, from 2–D representations	6G3b Recognise and build simple 3D shapes, including making nets		

				different orientations and describe them							
				3G4a	4G4	5G4a	6G4a				
				Recognise that angles are a	Identify acute and obtuse	Know angles are measured in	Find unknown angles in any				
				property of shape or a description of a turn	angles and compare and order angles up to two right	degrees: estimate and compare acute, obtuse and	triangles, quadrilaterals and regular polygons				
				•	angles by size	reflex angles	rogular polygorio				
G4 Angles – measurin g and propertie s				Identify right angles, recognise that two right angles make a half-turn, three make three quarters of a turn and four a complete turn; identify whether angles are greater than or less than a		5G4b Identify: - angles at a point and one whole turn (total 360°) - angles at a point on a straight line and ½ a turn (total 180°) - other multiples of 90°	Recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles				
				right angle		5G4c					
						Draw given angles and measure them in degrees (°)					
G5 Circles							6G5 Illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius				
	Geometry: position and direction										
Strand	Early Years outcomes	National Curriculum reference Year 1	National Curriculum reference Year 2	National Curriculum reference Year 3	National Curriculum reference Year 4	National Curriculum reference Year 5	National Curriculum reference Year 6				
P1 Patterns	Talk about patterns in the environment. For example, stripes on clothes. Use informal language like 'pointy', 'spotty'. Continue, copy and create repeating patterns.		2P1 Order and arrange combinations of mathematical objects in patterns and sequences								
	Understand positional		2P2		4P2	5P2	6P2				
P2 Describe position, direction and movemen t	language with focus on under, over, behind, infront, forwards, backwards.	1P2 Describe position, directions and movement, including half, quarter and three-quarter turns	Use mathematical vocabulary to describe position, direction and movement, including movement in a straight line and distinguishing between rotation as a turn and in terms of right angles for quarter, half and three-quarter turns		Describe movements between positions as translations of a given unit to the left/right and up/down	Identify, describe and represent the position of a	Draw and translate simple shapes on the co-ordinate plane, and reflect them in the axes				

					4P3a		6P3					
					Describe positions on a		Describe positions on the full					
P3					2-D grid as co-ordinates in		co-ordinate grid (all four					
Coordinat					the first quadrant		quadrants)					
					4P3b		•					
es					Plot specified points and draw							
					sides to complete a given							
					polygon							
Statistics												
Strand	Early Years outcomes	National Curriculum reference Year 1	National Curriculum reference Year 2	National Curriculum reference Year 3	National Curriculum reference Year 4	National Curriculum reference Year 5	National Curriculum reference Year 6					
S1			2S1	3S1	4S1	5S1	6S1					
Interpret			Interpret and construct simple	Interpret and present data	Interpret and present discrete	Complete, read and interpret	Interpret and construct pie					
and			pictograms, tally charts, block	using bar charts, pictograms	and continuous data using	information in tables,	charts and line graphs and					
represent			diagrams and simple tables	and tables	appropriate graphical	including timetables	use these to solve problems					
•					methods, including bar charts							
data					and time graphs							
			2S2a	3\$2	4\$2	5\$2						
			Ask and answer simple	Solve one-step and two step	Solve comparison, sum and	Solve comparison, sum and						
S2			questions by counting the	questions [e.g.: 'How many	difference problems using	difference problems using						
Solve			number of objects in each	more?' and 'How many	information presented in bar	information presented in a line						
problems			category and sorting the categories by quantity	fewer?'] using information presented in scaled bar	charts, pictograms, tables and other graphs	graph						
involving			categories by quantity	charts, pictograms and tables	Other graphs							
data			2S2b	charts, pictograms and tables								
uala			Ask and answer questions									
			about totalling and comparing									
			categorical data									
S3			anagaaa.a				6S3					
Mean							Calculate and interpret the					
							mean as an average					
average												