



Maths Skills Progression

Nursery

Area of Maths	Baseline Checkpoint	End of Autumn Checkpoint	End of Spring Checkpoint	End of F1
Number	 Know that things exist, even when out of sight. Begin to organise and categorise objects (e.g. putting all the teddy bears together or teddies and cars in separate piles). Select a small number of objects from a group when asked (up to 2). 	 Recite some number names in sequence up to 5. Mark make and ascribe some concept of number to the marks (attempts at digits from the environment, making dots, lines etc). Show finger numbers to 3. Begin to solve real life maths problems with support. 	 Recite numbers past 5 Know that the last number reached when counting a small set of objects tells you how many there are in total ('cardinal principle'). Show finger numbers to 4. Fast recognition of up to 2 objects, without having to count them individually ('subitising'). 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. 	 Have a good understanding of numbers to 5 and knows that the amount stays the same however objects are arranged. Rote counts to 10 Subitise to 3. Represent numbers to 5 using fingers, marks or digits. Know the last number in a counting sequence is the total number (cardinal principle)
Numerical Patterns	 I can count in every day contexts, potentially missing some numbers. I can join in with finger rhymes. 	•Say one number for each item in order: 1,2,3,4,5. • Can show an understanding of simple comparisons like 'more'.	 Compare quantities using language: 'more than', 'fewer than'. Begin to solve real world mathematical problems with numbers up to 5. 	 Compares amounts using the language of 'more, fewer or same'. Reads numerals to 5 and matches to an amount. Orders numbers to 5. Solve real world maths problems with numbers up to 5.
Shape, Space and Measure	 Can attempt, sometimes successfully, to fit shapes into spaces on inset boards or jigsaw puzzles. Can use blocks to create my own simple structures and arrangements. 	 Talk about and identifies the patterns around them. For example: stripes on clothes, designs on rugs and wallpaper. Explores and talks about different shapes using language such as 'big' and 'little'. 	 Extend and create ABAB patterns –stick, leaf, stick, leaf. Show some understanding of 'now' and 'next'. Talk about a familiar route Use prepositions in front/behind. 	 Uses some everyday language to talk about and compare size and shape. Recognises a repeated pattern and is beginning to create own patterns and arrangements. Talk about routines e.g. before/after.

• Can associate a sequence	• Makes comparisons relating	• Explore 2D and 3D	• Start to identify shapes
of actions with daily	to size.	shapes naming a few.	• Identify shapes in the
routines.	 Talk about 'my day'. 	• Make comparisons between	environment.
• Beginning to understand		objects relating to size,	• Use positional language
that things might happen		length, weight and capacity.	
'now.'		 Select shapes appropriately: 	
• Compare sizes, weights etc.		flat surfaces for building, a	
using gesture and language		triangular prism for a roof	
— bigger/little/smaller,		etc.	
high/low, tall, heavy.			
• Can fill and empty a			
container.			

Reception

Area of Maths	Baseline Checkpoint	End of Autumn Checkpoint	End of Spring Checkpoint	End of Summer Checkpoint
Number		I can subitise to 3. I can recognise numbers to 5. I can represent 1-5 on fingers, on a five frame and with objects. I can discuss composition of numbers to 3, showing some automatic recall of number facts. I can show accuracy when counting a group of up to 5 objects.	I can understand that 'zero' and the numeral 'O' represents 'nothing'. I can discuss composition of numbers to 5, showing some automatic recall of number facts. I can understand there are different ways to make numbers up to 10. I can recognise numbers to 10. I can count an irregular arrangement of up to ten objects. I can begin to explore number bonds to 10. I can subitise to 4.	
Numerical Pattern		I can begin to recite numbers to 20 confidently. I can count back from 10.	I can use the language of 'more', 'fewer' and 'equal' to compare two sets of objects.	

Space Shape and Maggure	I can compare groups of objects up to 3. I can understand the term equal when comparing two groups of objects. I can demonstrate understanding of the cardinality when counting objects. I can show an understanding of one more and one less with numbers up to 5.	I can find the total number of items in two groups by counting all of them and starting to use 'counting on'. I can recite numbers to 20. I can understand 'one more' and 'one less' to numbers up to 10. I can begin to show some understanding of doubling.	I can use querida la augusta
Space, Shape and Measure	I can use comparative language like taller, shorter, the same and compare items according to these criteria. I can start to identify shapes in the environment- circles, triangles and 4 sided shapes. I can begin to talk about night and day and order key events in my own daily routine. I can recite the days of the week. I can recognise and talk about simple patterns. I can begin to use positional language such as above, below, under, over, behind, in front of, next to, in and on. I can match and sort objects based on their properties such as size, colour, shape, etc.	I can show an understanding of yesterday, today and tomorrow. I can experiment with length, height, capacity and use my findings to order and group items. I can order and sequence important times in my day and use language such as now, before, later, soon, after, then and next. I can recall names for 2D and 3D shapes and begin to use some of the terms to describe their properties. I can begin to explore more complex patterns.	I can use everyday language to discuss length, size, height, weight, time, position and capacity and use this language to make simple observations. I can understand and use some mathematical language to describe 2D and 3D shapes with support. I know some common 2D and 3D shapes. I can create, copy and continue a simple pattern and some more complex patterns. I can select, rotate and manipulate shapes in order to develop spatial reasoning skills.

Key Stage 1 and 2

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
			Number and Pla	ice Value		
Counting	count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number count, read and write numbers to 100 in numerals; count in multiples of twos, fives and tens given a number, identify one more and one less	count in steps of 2, 3, and 5 from 0, and in tens from any number, forward or backward	count from 0 in multiples of 4, 8, 50 and 100; find 10 or 100 more or less than a given number	count backwards through zero to include negative numbers count in multiples of 6, 7, 9, 25 and 1000 find 1000 more or less than a given number	interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero count forwards or backwards in steps of powers of 10 for any given number up to 1 000 000	use negative numbers in context, and calculate intervals across zero
Comparing numbers	use the language of: equal to, more than, less than (fewer), most, least	compare and order numbers from 0 up to 100; use q, G and = signs	compare and order numbers up to 1000	order and compare numbers beyond 1 000 compare numbers with the same number of decimal places up to two decimal places (copied from Fractions)	read, write, order and compare numbers to at least 1 000 000 and determine the value of each digit (appears also in Reading and Writing Numbers)	read, write, order and compare numbers up to 10 000 000 and determine the value of each digit (appears also in Reading and Writing Numbers)

Identifying, representing, and	identify and represent numbers using objects and pictorial representations including the number line	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		
Reading and writing numbers (including roman numerals).	read and write numbers from 1 to 20 in numerals and words.	read and write numbers to at least 100 in numerals and in words	read and write numbers up to 1000 in numerals and in words tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour clocks (copied from Measurement)	read Roman numerals to 100 (I to C) and know that over time, the numeral system changed to include the concept of zero and place value.	read, write, order and compare numbers to at least 1 000 000 and determine the value of each digit (appears also in Comparing Numbers) read Roman numerals to 1000 (M) and recognise years written in Roman numerals.	read, write, order and compare numbers up to 10 000 000 and determine the value of each digit (appears also in Understanding Place Value)
Understanding place value		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)	recognise the place value of each digit in a four-digit number (thousands, hundreds, tens, and ones) 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 units, tenths and hundredths (copied from Fractions)	read, write, order and compare numbers to at least 1 000 000 and determine the value of each digit (appears also in Reading and Writing Numbers) recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents (copied from Fractions)	read, write, order and compare numbers up to 10 000 000 and determine the value of each digit (appears also in Reading and Writing Numbers) 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 (copied from Fractions)

				round any number to	round any number up	round any whole
				the nearest 10, 100	to 1000000 to the	number to a required
				or 1 000	nearest 10, 100, 1 000, 10 000 and 100	degree of accuracy
_					000	
Rounding				round decimals with		solve problems which
ğ				one decimal place to	round decimals with	require answers to be
2				the nearest whole number	two decimal places to the nearest whole	rounded to specified
				(copied from	number and to one	degrees of accuracy (copied from
				Fractions)	decimal place	Fractions)
					(copied from	, ractions,
					Fractions)	
б		use place value and	solve number	solve number and	solve number	solve number and
.vir		number facts to solve	problems and	practical problems	problems and	practical problems
so		problems	practical problems	that involve all of the	practical problems	that involve all of the
e.			involving these ideas.	above and with	that involve all of the above	above
Problem solving				increasingly large positive numbers	above	
4				positive manusers		
			Addition and Su	ıbtraction		
	represent and use	recall and use				
<u>ω</u>	number bonds and	addition and				
Number bonds	related subtraction	subtraction facts to				
ا چ کے	facts within 20	20 fluently, and				
		derive and use related facts up to 100				
	add and subtract one-	add and subtract	add and subtract		add and subtract	perform mental
	digit and two-digit	numbers using	numbers mentally,		numbers mentally	calculations, including
	numbers to 20,	concrete objects,	including:		with increasingly large	with mixed operations
ح ا	including zero	pictorial	* a three-digit		numbers	and large numbers
ıtio		representations, and	number and ones			
 		mentally, including:	* a three-digit			
calculation		* a two-digit number and ones	number and tens * a three-digit			
멸		* a two-digit	number and			
Mental		number and tens	hundreds			
2		* two two-digit				
			i		1	
		numbers				
		numbers adding three one-digit numbers				

Mental calculation	read, write and interpret mathematical statements involving addition (+), subtraction (-) and equals (=) signs (appears also in Written Methods)	show that addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot				use their knowledge of the order of operations to carry out calculations involving the four operations
Written methods	read, write and interpret mathematical statements involving addition (+), subtraction (-) and equals (=) signs (appears also in Mental Calculation)		add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction	add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate	add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction)	
Inverse operations, estimating and		recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems.	estimate the answer to a calculation and use inverse operations to check answers	estimate and use inverse operations to check answers to a calculation	use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy	use estimation to check answers to calculations and determine, in the context of a problem, levels of accuracy.

Problem Solving	solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as $7 = \Box - 9$	solve problems with addition and subtraction: * using concrete objects and pictorial representations, including those involving numbers, quantities and measures applying their increasing knowledge of mental and written methods solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change (copied from Measurement)	solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction	solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why	solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why	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
			Multiplication an	d Division		
Multiplication and division	count in multiples of twos, fives and tens (copied from Number and Place Value)	count in steps of 2, 3, and 5 from 0, and in tens from any number, forward or backward (copied from Number and Place Value)	count from 0 in multiples of 4, 8, 50 and 100 (copied from Number and Place Value)	count in multiples of 6, 7, 9, 25 and 1 000 (copied from Number and Place Value)	count forwards or backwards in steps of powers of 10 for any given number up to 1 000 000 (copied from Number and Place Value)	
Multiplication and division facts		recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers	recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables	recall multiplication and division facts for multiplication tables up to 12 × 12		

		write and calculate	use place value,	multiply and divide	perform mental
		mathematical	known and derived	numbers mentally	calculations, including
		statements for	facts to multiply and	drawing upon known	with mixed operations
		multiplication and	divide mentally,	facts	and large numbers
۲ ۲		division using the	including: multiplying		
atic		multiplication tables	by 0 and 1; dividing		
Mental calculation		that they know,	by 1; multiplying		
g		including for two-digit	together three		
멸		numbers times one-	numbers		
len!		digit numbers, using			
Σ		mental and			
		progressing to formal			
		written methods			
		(appears also in Written Methods)			
	show that	vvillen methods)	recognise and use	multiply and divide	associate a fraction
	multiplication of two		factor pairs and	whole numbers and	with division and
Mental calculation	numbers can be done		commutativity in	those involving	calculate decimal
lat	in any order		mental calculations	decimals by 10, 100	fraction equivalents
	(commutative) and		(appears also in	and 1000	(e.g. 0.375) for a
2	division of one		Properties of		simple fraction (e.g.
nta	number by another		Numbers)		3/8)
$\frac{Z}{e}$	cannot				(copied from
					Fractions)
	calculate	write and calculate	multiply two-digit and	multiply numbers up	multiply multi-digit
	mathematical	mathematical	three-digit numbers by	to 4 digits by a one-	numbers up to 4
	statements for	statements for	a one-digit number	or two-digit number	digits by a two-digit
	multiplication and	multiplication and	using formal written	using a formal written	whole number using
ion	division within the	division using the	layout	method, including	the formal written
lat	multiplication tables	multiplication tables		long multiplication for	method of long
l G	and write them using	that they know,		two-digit numbers	multiplication
25	the multiplication (x),	including for two-digit			
Written calculation	division (÷) and equals	numbers times one- digit numbers, using			
Vri	(=) signs	mental and			
		progressing to formal			
		written methods			
		(appears also in			
		Mental Methods)			

Written calculation			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	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 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 context
				use written division methods in cases where the answer has up to two decimal places (copied from Fractions (including decimals))

Properties of number: multiples, factors, square and cube numbers			recognise and use factor pairs and commutativity in mental calculations (repeated)	identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers. know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers establish whether a number up to 100 is prime and recall prime numbers up to 19 recognise and use square numbers, and the notation for squared (2) and cubed (3)	identify common factors, common multiples and prime numbers use common factors to simplify fractions; use common multiples to express fractions in the same denomination (copied from Fractions) calculate, estimate and compare volume of cubes and cuboids using standard units, including centimetre cubed (cm³) and cubic metres (m³), and extending to other units such as mm³ and km³ (copied from Measures) use their knowledge
Order of operations					of the order of operations to carry out calculations involving the four operations
Inverse operations,		estimate the answer to a calculation and use inverse operations to check answers (copied from Addition and Subtraction)	estimate and use inverse operations to check answers to a calculation (copied from Addition and Subtraction)		use estimation to check answers to calculations and determine, in the context of a problem, levels of accuracy

solve one-step problems involving multiplication and division, by calculating the answer using concrete objects, pictorial representations and arrays with the support of the teacher support suppo
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Counting in fractional steps		Pupils should count in fractions up to 10, starting from any number and using the 1/2 and 2/4	count up and down in tenths	count up and down in hundredths		
Co fract		equivalence on the number line (Non Statutory Guidance)				
Recognising fractions	recognise, find and name a half as one of two equal parts of an object, shape or quantity recognise, find and name a quarter as one of four equal parts of an object, shape or quantity	recognise, find, name and write fractions 1/3, 1/4, 2/4 and 3/4 of a length, shape, set of objects or quantity	recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators recognise that tenths arise from dividing an object into 10 equal parts and in dividing one — digit numbers or quantities by 10. recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators	recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten	recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents (appears also in Equivalence)	
Comparing fractions			compare and order unit fractions, and fractions with the same denominators		compare and order fractions whose denominators are all multiples of the same number	compare and order fractions, including fractions >1
Comparin 9				compare numbers with the same number of decimal places up to two decimal places	read, write, order and compare numbers with up to three decimal places	identify the value of each digit in numbers given to three decimal places

	<u> </u>		round decimals with	round decimals with	عاده سمامامسم براد؛ -ا-
වී එ					solve problems which
Rounding including			one decimal place to	two decimal places to	require answers to be
l m			the nearest whole	the nearest whole	rounded to specified
R in			number	number and to one	degrees of accuracy
				decimal place	_
	write simple fractions	recognise and show,	recognise and show,	identify, name and	use common factors
	e.g. ¹ / ₂ of 6 = 3 and	using diagrams,	using diagrams,	write equivalent	to simplify fractions;
	2	equivalent fractions	families of common	fractions of a given	use common multiples
	recognise the	with small	equivalent fractions	fraction, represented	to express fractions in
<u>(Š)</u>	equivalence of 2I_4 and	denominators		visually, including	the same
ıge	-		recognise and write	tenths and	denomination
ntc	1 ₂ .		decimal equivalents of	hundredths	
S			any number of tenths		associate a fraction
pe			or hundredths	read and write	with division and
nd				decimal numbers as	calculate decimal
s a				fractions (e.g. 0.71 =	fraction equivalents
Jal			recognise and write	71 / 100)	(e.g. 0.375) for a
cin				100	simple fraction (e.g.
qe			1,1,2,3,4		3/8)
ns,			4' 2' 4	recognise and use thousandths and	8
tio					recall and use
rac				relate them to tenths, hundredths and	
f 6					equivalences between
din				decimal equivalents	simple fractions, decimals and
clu					
(ii				recognise the per cent	percentages, including
90				symbol (%) and	in different contexts.
Equivalence (including fractions, decimals and percentages).				understand that per cent relates to	
iva					
nb:				"number of parts per	
Ш				hundred", and write	
				percentages as a	
				fraction with	
				denominator 100 as a	
				decimal fraction	

		add and subtract	add and subtract	add and subtract	add and subtract
გ		fractions with the	fractions with the	fractions with the	fractions with
ior		same denominator	same denominator	same denominator	different
act		within one whole (e.g.		and multiples of the	denominators and
f.		${}^{5}I_{7} + {}^{1}I_{7} = {}^{6}I_{7}$		same number	mixed numbers, using
ı oʻ		'7' '7 '7'			the
ion				recognise mixed	concept of equivalent
act				numbers and	fractions
otr				improper fractions	
sul				and convert from one	
b				form to the other and	
ם ו				write mathematical	
io				statements G 1 as a	
Addition and subtraction of fractions				mixed number (e.g. $^2/_5$	
¥					
				$+ {}^{4}/_{5} = {}^{6}/_{5} = 1^{1}/_{5}$	
				multiply proper	multiply simple pairs
รา				fractions and mixed	of proper fractions,
tio				numbers by whole	writing the answer in
ā				numbers, supported	its simplest form (e.g.
of f				by materials and	${}^{1}/_{4} \times {}^{1}/_{2} = {}^{1}/_{8}$
น				diagrams	4 2 8
sio					
livi					multiply one-digit
p p					numbers with up to
æ					two decimal places by whole numbers
ron					whole numbers
Multiplication and division of fractions					divide proper fractions
ipli					by whole numbers
ulti					1, 1,
Σ					(e.g. $^{1}I_{3} \div 2 = ^{1}I_{6}$)

	I	I	(;) .) ((, (
			find the effect of	multiply one-digit
			dividing a one- or	numbers with up to
			two-digit number by	two decimal places by
			10 and 100,	whole numbers
			identifying the value	
			of the digits in the	multiply and divide
			answer as ones,	numbers by 10, 100
			tenths and	and 1000 where the
			hundredths	answers are up to
			Trained Carries	three decimal places
S				three decimal places
Multiplication and division of decimals				identify the value of
Ċi				identify the value of
de				each digit to three
र्				decimal places and
٦ و				multiply and divide
İsi				numbers by 10, 100
di.				and 1000 where the
ਰ				answers are up to
ਰ				three decimal places
o L				
a ii				associate a fraction
ig				with division and
真				calculate decimal
₹				fraction equivalents
_				(e.g. 0.375) for a
				simple fraction
				(e.g. ³ / ₈)
				use written division
				methods in cases
				where the answer has
				up to two decimal
				places
				'
	1		•	1

					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.	
Measurement						

Comparing and estimating	compare, describe and solve practical problems for: * lengths and heights [e.g. long/short, longer/shorter, tall/short, double/half] * mass/weight [e.g. heavy/light, heavier than, lighter than] * capacity and volume [e.g. full/empty, more than, less than, half, half full, quarter] time [e.g. quicker, slower, earlier, later] sequence events in chronological order using language [e.g. before and after, next, first, today, yesterday, tomorrow, morning, afternoon and evening]	compare and order lengths, mass, volume/capacity and record the results using G, q and = compare and sequence intervals of time	compare durations of events, for example to calculate the time taken by particular events or tasks estimate and read time with increasing accuracy to the nearest minute; record and compare time in terms of seconds, minutes, hours and o'clock; use vocabulary such	estimate, compare and calculate different measures, including money in pounds and pence (also included in Measuring)	calculate and compare the area of squares and rectangles including using standard units, square centimetres (cm²) and square metres (m²) and estimate the area of irregular shapes (also included in measuring) estimate volume (e.g. using 1 cm² blocks to build cubes and cuboids) and capacity (e.g. using water)	calculate, estimate and compare volume of cubes and cuboids using standard units, including centimetre cubed (cm³) and cubic metres (m³), and extending to other units such as mm³ and km³.
			time in terms of seconds, minutes,			

	measure and begin to record	choose and use	maggira compara	estimate compare	use all four	solve problems
	the following:		measure, compare, add and subtract:	estimate, compare and calculate	operations to solve	involving the
	5	appropriate standard units to			•	calculation and
	* lengths and heights * mass/weight	estimate and	lengths (m/cm/mm);	different measures,	problems involving	
	muss/weight		mass (kg/g);	including money in	measure (e.g. length ,	conversion of units
9	capacity and volume	measure	volume/capacity	pounds and pence	mass, volume,	of measure, using
Measuring and Calculating	* time (hours, minutes,	length/height in any direction (m/cm);	(l/ml)	(appears also in	money) using decimal notation	decimal notation up to three decimal
ıla	seconds)	-		Comparing)	including scaling.	places where
alcı		mass (kg/g);			including scaling.	' ·
ŭ		temperature (°C); capacity (litres/ml)				appropriate
nd		to the nearest				(appears also in
g 0						Converting)
ri		appropriate unit,		measure and	measure and	
ารถ		using rulers, scales, thermometers and	measure the	calculate the	calculate the	recognise that
Лес			perimeter of simple	perimeter of a	perimeter of	shapes with the same areas can have
_		measuring vessels	2-D shapes	rectilinear figure	composite rectilinear	
				(including squares) in centimetres and	shapes in centimetres and	different perimeters and vice versa
				metres	metres	ana vice versa
				Hiteries	Hieries	
	recognise and know the value	recognise and use	add and subtract	find the area of	calculate and	calculate the area of
	of different denominations of	symbols for pounds	amounts of money	rectilinear shapes by	compare the area of	parallelograms and
	coins and notes	(£) and pence (p);	to give change,	counting squares	squares and	triangles
		combine amounts to	using both $m{\it £}$ and p		rectangles including	
		make a particular	in practical contexts		using standard units,	calculate, estimate
		value			square centimetres	and compare volume
ng					(cm ²) and square	of cubes and cuboids
ati		find different			metres (m ²) and	using standard units,
Cul		combinations of			estimate the area of	including cubic
cal		coins that equal the			irregular shapes	centimetres (cm³)
Measuring and calculating		same amounts of			irregular shapes	and cubic metres
g (money			recognise and use	(m³), and extending
inç					square numbers and	to other units [e.g.
sur		solve simple			cube numbers, and	, , ,
1ea		problems in a			the notation for	mm³ and km³].
2		practical context			2	
		involving addition			squared (*) and	recognise when it is
		and subtraction of			cubed (³)	possible to use
		money of the same			(copied from	formulae for area
		unit, including giving			Multiplication and	and volume of
		change			Division)	shapes

	A Hallace and the Company			1		
	tell the time to the hour and	tell and write the	tell and write the	read, write and		
	half past the hour and draw	time to five minutes,	time from an	convert time		
	the hands on a clock face to	including quarter	analogue clock,	between analogue		
	show these times.	past/to the hour and	including using	and digital 12 and		
		draw the hands on a	Roman numerals	24-hour clocks		
	recognise and use language	clock face to show	from I to XII, and	(appears also in		
	relating to dates, including	these times.	12-hour and 24-	Converting)		
	days of the week, weeks,		hour clocks	J		
	months and years	know the number of				
	·····	minutes in an hour	estimate and read			
		and the number of	time with increasing			
Telling the time		hours in a day.	accuracy to the			
宝		(appears also in	nearest minute;			
न		Converting)	record and compare			
<u></u>		Converting				
<u>≒</u>			time in terms of			
_ e			seconds, minutes,			
			hours and o'clock;			
			use vocabulary such			
			as a.m./p.m.,	solve problems		
			morning, afternoon,	involving converting	solve problems	
			noon and midnight	from hours to	involving converting	
			(appears also in	minutes; minutes to	between units of	
			Comparing and	seconds; years to	time	
			Estimating)	months; weeks to		
			J.	days		
				(appears also in		
				Converting)		
				Conventing		

Geometry — property of shapes

Identifying shapes and their properties	recognise and name common 2-D and 3-D shapes, including: * 2-D shapes [e.g. rectangles (including squares), circles and triangles] * 3-D shapes [e.g. cuboids (including cubes), pyramids and spheres].	identify and describe the properties of 2-D shapes, including the number of sides and line symmetry in a vertical line identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces identify 2-D shapes on the surface of 3-D shapes, [for example, a circle on a cylinder and a		identify lines of symmetry in 2-D shapes presented in different orientations	identify 3-D shapes, including cubes and other cuboids, from 2-D representations	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
Drawing and constructing		pyramid]	draw 2-D shapes and make 3-D shapes using modelling materials; recognise 3-D shapes in different orientations and describe them	complete a simple symmetric figure with respect to a specific line of symmetry	draw given angles, and measure them in degrees (°)	draw 2-D shapes using given dimensions and angles recognise, describe and build simple 3-D shapes, including making nets (appears also in Identifying Shapes and Their Properties)

Comparing and classifying		compare and sort common 2-D and 3- D shapes and everyday objects		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 distinguish between regular and irregular polygons based on reasoning about equal sides and angles	compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals, and regular polygons			
Angles			recognise angles as a property of shape or a description of a turn 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 right angle identify horizontal and vertical lines and pairs of perpendicular and parallel lines	identify acute and obtuse angles and compare and order angles up to two right angles by size	know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles 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			
	Geometry — position and direction								

Geometry – position and direction

Position, direction and movement	describe position, direction 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 (clockwise and anti-clockwise)	describe positions or a 2-D grid as coordinates in the first quadrant describe movements between positions as translations of a given unit to the left/right and up/down plot specified points and draw sides to complete a given polygon	and represent the position of a shape following a reflection or translation, using the appropriate	describe positions on the full coordinate grid (all four quadrants)
Pattern		order and arrange combinations of mathematical objects in patterns and sequences			

Statistics

		interpret and	interpret and present	interpret and present	complete, read and	interpret and	
		construct simple	data using bar	discrete and	interpret information	construct pie charts	
ţ.		pictograms, tally	charts, pictograms	continuous data	in tables, including	and line graphs and	
ap		charts, block	and tables	using appropriate	timetables	use these to solve	
5		diagrams and simple	ana tables	graphical methods,	timetables	problems	
Ę		tables		including bar charts		problems	
ese		tables		and time graphs			
يم		ask and answer		and time graphs			
<u> </u>		simple questions by					
9 9		counting the number					
iti Ei		of objects in each					
2		category and sorting					
nst		the categories by					
8		quantity					
Interpreting, constructing and presenting data		, J					
eti		ask and answer					
يَّ		questions about					
nte		totaling and					
Н		comparing					
		categorical data					
			solve one-step and	solve comparison,	solve comparison,	calculate and	
			two-step questions	sum and difference	sum and difference	interpret the mean	
			[e.g. 'How many	problems using	problems using	as an average	
			more?' and 'How	information	information		
6			many fewer?'] using	presented in bar	presented in a line		
l E			information	charts, pictograms,	graph		
lgc			presented in scaled	tables and other			
pre			bar charts and	graphs.			
ยน			pictograms and				
Solving problems			tables.				
Š							
Algebra							

Algebra

		mana anina and u	aalua muahlama		the maneuti	avavasa miasina
	solve one-step problems that	recognise and use	solve problems,		use the properties of	express missing
	involve addition and	the inverse	including missing		rectangles to deduce	number problems
	subtraction, using concrete	relationship between	number problems,		related facts and	algebraically
	objects and pictorial	addition and	using number facts,		find missing lengths	
	representations, and missing	subtraction and use	place value, and		and angles	find pairs of
	number problems such as	this to check	more complex		(copied from	numbers that satisfy
	7 = □ - 9	calculations and	addition and		Geometry:	number sentences
	(copied from Addition and	missing number	<i>subtraction.</i> (copied		Properties of	involving two
	Subtraction)	problems.	from Addition and		Shapes)	unknowns
		(copied from	Subtraction)			
รา	represent and use number	Addition and				enumerate all
Equations	bonds and related subtraction	Subtraction)	solve problems,			possibilities of
쿬	facts within 20 (copied from		including missing			combinations of two
ш	Addition and Subtraction)	recall and use	number problems,			variables
	, tautitori arta cacti actions	addition and	involving			V 41 143 153
		subtraction facts to	multiplication and			
		20 fluently, and	division, including			
		derive and use	integer scaling			
			5			
		related facts up to 100	(copied from			
			Multiplication and			
		(copied from	Division)			
		Addition and				
		Subtraction)				
				Perimeter can be		use simple formulae
				expressed		
				algebraically as 2(a		recognise when it is
ae				+ b) where a and b		possible to use
Formulae				are the dimensions		formulae for area
Ę				in the same unit.		and volume of
ц				(Copied from NSG		shapes
				measurement)		(copied from
						Measurement)
			ĺ			i l

Sequences	sequence events in chronological order using language such as: before and after, next, first, today, yesterday, tomorrow, morning, afternoon and evening (copied from Measurement)	compare and sequence intervals of time (copied from Measurement) order and arrange combinations of mathematical objects in patterns (copied from Geometry: position		generate and describe linear number sequences
		Geometry: position and direction)		