

		NUN	MBER: PLACE VALUE - COU	INTING		
EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Numbers to 5 – counts up to 3 or 4 objects by saying one number name for each item. Counts actions or	count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number			count backwards through zero to include negative numbers	interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero	use negative numbers in context, and calculate intervals across zero
objects which cannot be moved.	count, read and write numbers to 100 in numerals; count in multiples of twos, fives and tens	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;	count in multiples of 6, 7, 9, 25 and 1000	count forwards or backwards in steps of powers of 10 for any given number up to 1 000 000	
Finds one more or one less from a group of up to five objects, then ten objects.	given a number, identify one more and one less		find 10 or 100 more or less than a given number	find 1000 more or less than a given number		
		NUMBER: PLACE VAL	UE - COMPARING NUMBE	RS		
Numbers to 5 -	use the language of: equal to, more than,	compare and order numbers from 0 up to	compare and order numbers up to 1000	order and compare numbers beyond 1000	read, write, order and compare numbers to	read, write, order and compare numbers up
Uses the language of 'more' and 'fewer' to compare two sets of objects.	less than (fewer), most, least	100; use <, > and = signs		compare numbers with the same number of decimal places up to two decimal places (copied from Fractions)	at least 1 000 000 and determine the value of each digit (appears also in Reading and Writing Numbers)	to 10 000 000 and determine the value of each digit (appears also in Reading and Writing Numbers)
	NU	IMBER: PLACE VALUE - IDI	ENTIFYING, REPRESENTING	G AND ESTIMATING NUM	BERS	
	identify and represent numbers using objects and pictorial representations including the number	identify, represent and estimate numbers using different representations, including the number	identify, represent and estimate numbers using different representations	identify, represent and estimate numbers using different representations		



(copied from Fractions)

1000 where the answers

are up to three decimal

places (copied from

Fractions)

as units, tenths and

(copied from Fractions)

hundredths

	line	line				
		NUMBER : PLACE V	ALUE- READING AND WRI	TING NUMBERS (including	g Roman Numerals)	
EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Recognise some numerals of personal significance.	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		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, write, order and compare numbers up to 10 000 000 and determine the value ceach digit (appears also in
Recognises numerals 1 to 5.			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 Roman numerals to 1000 (M) and recognise years written in Roman numerals.	Understanding Place Value)
		NUMBER: PLA	ACE VALUE - UNDERSTANI	DING 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)	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 o each digit (appears also in Reading and Writing Numbers)
				find the effect of dividing a one- or two-digit number by 10 and 100, identifying the value of the digits in the answer	recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents	identify the value of eac digit to three decimal places and multiply and divide numbers by 10, 100 and



		NUN	MBER: PLACE VALUE - RO	UNDING		
EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
				round any number to the nearest 10, 100 or 1000 round decimals with one decimal place to the	round any number up to 1000 000 to the nearest 10, 100, 1000, 10 000 and 100 000 round decimals with two decimal places to the	round any whole number to a required degree of accuracy solve problems which require answers to be
				nearest whole number (copied from Fractions)	nearest whole number and to one decimal place (copied from Fractions)	rounded to specified degrees of accuracy (copied from Fractions)
		NUMBE	R: PLACE VALUE - PROBLE	EM SOLVING		
		use place value and number facts to solve problems	solve number problems and practical problems involving these ideas.	solve number and practical problems that involve all of the above and with increasingly large positive numbers	solve number problems and practical problems that involve all of the above	solve number and practical problems that involve all of the above

	NUMBER: ADDITION and SUBTRACTION - NUMBER BONDS								
EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6			
	represent and use	recall and use addition							
	number bonds and	and subtraction facts to							
	related subtraction	20 fluently, and derive							
	facts within 20	and use related facts up							
		to 100							
		NUMBER: ADDITION	l and SUBTRACTION - N	MENTAL CALCULATION					
Using quantities	add and subtract one-	add and subtract	add and subtract		add and subtract	perform mental			
and objects, they	digit and two-digit	numbers using concrete	numbers mentally,		numbers mentally with	calculations, including			
add and subtract	numbers to 20,	objects, pictorial	including:		increasingly large	with mixed operations			
two single-digit	including zero	representations, and	* a three-digit		numbers	and large numbers			
numbers and count		mentally, including:	number and						
on or back to find		* a two-digit number	ones						
the answer		and ones	* a three-digit						

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	 * a two-digit number and tens * two two-digit numbers * adding three one- 	number and tens * a three-digit number and hundreds		
read, write and interpret mathematical	digit numbers show that addition of two numbers can be done in any order			use their knowledge of the order of operations to carry out calculations
statements involving addition (+), subtraction (-) and	(commutative) and subtraction of one number from another			involving the four operations
equals (=) signs (appears also in Written Methods)	cannot			



		NUMBER: ADDIT	ION and SUBTRACTION	- WRITTEN METHODS		
EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
	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)	
	·	DDITION and SUBTRACTIO	N - INVERSE OPERATIO	NS, ESTIMATING AND CH	IECKING ANSWERS	
		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.



		NUMBER: ADDITION	ON and SUBTRACTION	- PROBLEM SOLVING		
EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Find the total	solve one-step	solve problems with	solve problems,	solve addition and	solve addition and	solve addition and
number of items	problems that involve	addition and	including missing	subtraction two-step	subtraction multi-step	subtraction multi-step
in two groups by	addition and	subtraction:	number problems,	problems in contexts,	problems in contexts,	problems in contexts,
counting all of	subtraction, using	* using concrete	using number facts,	deciding which	deciding which	deciding which
them. In practical	concrete objects and	objects and pictorial	place value, and	operations and	operations and	operations and
activities and	pictorial	representations,	more complex	methods to use and	methods to use and	methods to use and
discussion,	representations, and	including those	addition and	why	why	why
beginning to use	missing number	involving numbers,	subtraction			
the vocabulary	problems such as	quantities and				
involved in adding	7 = □ - 9	measures				
and subtracting.		* applying their				
		increasing				
		knowledge of mental				
		and written methods				
		solve simple problems in a				Solve problems
		practical context involving				involving addition,
		addition and subtraction of				subtraction,
		money of the same unit,				multiplication and
		including giving change				division
		(copied from Measurement)				
		ivicasurement)				



	NUMBER: MULTIPLICATION and DIVISION - MULTIPLICATION & DIVISION FACTS									
EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6				
	count in multiples of	count in steps of 2, 3, and	count from 0 in multiples of 4,	count in multiples of	count forwards or					
	twos, fives and tens	5 from 0, and in tens	8, 50 and 100	6, 7, 9, 25 and 1 000	backwards in steps of					
	(copied from Number	from any number,	(copied from Number and Place	(copied from Number	powers of 10 for any					
	and Place Value)	forward or backward	Value)	and Place Value)	given number up to					
		(copied from Number and Place Value)			1 000 000 (copied from Number					
		and riace value)			and Place Value)					
		recall and use	recall and use multiplication	recall multiplication	una riace value)					
		multiplication and	and division facts for the 3, 4	and division facts						
		division facts for the 2,	and 8 multiplication tables	for multiplication						
		5 and 10 multiplication	and a manuphousien subject	tables up to 12 × 12						
		tables, including								
		recognising odd and								
		even numbers								
	NUMBER: MULTIPLICATION and DIVISION - MENTAL CALCULATION									
			write and calculate	use place value,	multiply and divide	perform mental				
			mathematical statements for	known and derived	numbers mentally	calculations, including				
			multiplication and division	facts to multiply	drawing upon known	with mixed operations				
			using the multiplication	and divide mentally,	facts	and large numbers				
			tables that they know,	including:						
			including for two-digit	multiplying by 0 and						
			numbers times one-digit	1; dividing by 1;						
			numbers, using mental and	multiplying						
			progressing to formal	together three						
			written methods (appears	numbers						
			also in Written Methods)							
		show that		recognise and use	multiply and divide	associate a fraction with				
		multiplication of two		factor pairs and	whole numbers and	division and calculate				
		numbers can be done		commutativity in	those involving	decimal fraction equivalents (e.g. 0.375)				
		in any order		mental calculations	decimals by 10, 100	for a simple fraction (e.g.				
		(commutative) and		(appears also in	and 1000	³ /8)				
		division of one number		Properties of Numbers)		(copied from Fractions)				
		by another cannot		ivanibers)						



EYFS Year 1	Year 2 calculate mathematical	Year 3 write and calculate	Year 4	Year 5	Year 6
	calculate mathematical	write and calculate			
	statements for multiplication and division within the multiplication tables and write them using the multiplication (×), division (÷) and equals (=) signs	mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods (appears also in Mental	multiply two-digit and three-digit numbers by a one-digit number using formal written layout	multiply numbers up to 4 digits by a one- or two-digit number using a formal written method, including long multiplication for two-digit numbers	multiply multi-digit numbers to 4 digits by a two-digit who number using the formal written method of long multiplication
		Methods)		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 a two-digit whole number us 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 whol number remainders, fraction or by rounding, as appropriat for the context use written division methods in cases where the answer has up to the context of the conte
					for the context use written division
					Traditions (moreamly accumus))



				Strong and a strong a strong and a strong and a strong and a strong a strong and a strong a strong and a strong a strong a strong a strong and a str
		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	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)
			recognise and use square numbers and cube numbers, and the notation for squared (2) and cubed (3)	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)



		NUMBER: MULTIPL	ICATION and DIVISION - C	ORDER OF OPERATIONS		
EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
						use their knowledge of the order of operations to carry out calculations involving the four operations
	NUMBER: MUL	TIPLICATION and DIVISION	ON - INVERSE OPERATION	NS, ESTIMATING AND CH	CKING ANSWERS	
			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



	NUMBER: MULTIPLICATION and DIVISION - PROBLEM SOLVING								
EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6			
LIFS	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	solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts	solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which n objects are connected to m objects	solve problems involving multiplying and adding, including using the distributive law to multiply two digit numbers by one digit, integer scaling problems and harder correspondence problems such as n objects are connected to m objects	solve problems involving multiplication and division including using their knowledge of factors and multiples, squares and cubes solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign solve problems involving multiplication and division, including scaling by simple fractions and problems involving	solve problems involving addition, subtraction, multiplication and division solve problems involving similar shapes where the scale factor is known or can be found (copied from Ratio and Proportion)			



EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
		Pupils should count in fractions up to 10, starting from any number and using the 1/2 and 2/4 equivalence on the number line (Non Statutory Guidance)	count up and down in tenths	count up and down in hundredths		
	NUN	BER: FRACTIONS (includ	ing Decimals and Percent	ages) - RECOGNISING FRA	ACTIONS	
	recognise, find and name a half as one of two equal parts of an object, shape or quantity	recognise, find, name and write fractions $\frac{1}{3}$, $\frac{1}{4}$, $\frac{2}{4}$ and $\frac{3}{4}$ 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 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)	
	recognise, find and		recognise and use			
	name a quarter as one of four equal parts of		fractions as numbers: unit fractions and non-			
	an object, shape or quantity		unit fractions with small denominators			
		MBER: FRACTIONS (include	ding Decimals and Percent	tages) - COMPARING FRA	CTIONS	
			compare and order unit fractions, and fractions with the		compare and order fractions whose denominators are all	compare and order fractions, including fractions >1
			same denominators		multiples of the same number	



		NUMBER:	FRACTIONS (includin	ng Decimals and Percentages) - COMPARING DECIMALS	
EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
				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
		NUMBER: FRAC	TIONS (including De	cimals and Percentages) - RO	UNDING INCLUDING DECIMALS	
	ANIMADES	FRACTIONS (including		round decimals with one decimal place to the nearest whole number	round decimals with two decimal places to the nearest whole number and to one decimal place	solve problems which require answers to be rounded to specified degrees of accuracy
	NUMBER	-			DING FRACTIONS, DECIMALS AND PER	
		write simple fractions e.g. $\frac{1}{2}$ of 6 = 3 and recognise the equivalence of $\frac{2}{4}$ and $\frac{1}{2}$.	recognise and show, using diagrams, equivalent fractions with small denominators	recognise and show, using diagrams, families of common equivalent fractions	identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths	use common factors to simplify fractions; use common multiples to express fractions in the same denomination
				recognise and write decimal equivalents of any number of tenths or hundredths	read and write decimal numbers as fractions (e.g. $0.71 = \frac{71}{100}$) recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents	associate a fraction with division and calculate decimal fraction equivalents (e.g. 0.375) for a simple fraction (e.g. $^3/_8$)
		NI IMREP: EPACTION	S (including Docimals	recognise and write decimal equivalents to $\frac{1}{4}$; $\frac{1}{2}$; $\frac{3}{4}$	recognise the per cent symbol (%) and understand that per cent relates to "number of parts per hundred", and write percentages as a fraction with denominator 100 as a decimal fraction N AND SUBTRACTION OF FRACTIONS	recall and use equivalences between simple fractions, decimals and percentages, including in different contexts.



EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
			add and subtract fractions with the same denominator within one whole (e.g. $\frac{5}{7} + \frac{1}{7}$)	add and subtract fractions with the same denominator	add and subtract fractions with the same denominator and multiples of the same number recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements > 1 as a mixed number (e.g. $\frac{2}{5}$ + $\frac{4}{5}$ = $\frac{6}{5}$ = $\frac{1}{5}$)	add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions
	AUUNADE	S EDACTIONS (' l l' D		AND THE LOCATION AND DIV		
	MOIMBEI	R: FRACTIONS (including De	ecimals and Percentages) -	MULTIPLICATION AND DIV	multiply proper	multiply simple pairs of
					fractions and mixed numbers by whole numbers, supported by materials and diagrams	proper fractions, writing the answer in its simplest form (e.g. $\frac{1}{4} \times \frac{1}{2} = \frac{1}{8}$) multiply one-digit numbers with up to two decimal places by whole numbers divide proper fractions
						by whole numbers (e.g. $\frac{1}{3} \div 2 = \frac{1}{6}$)
EYFS	Year 1	Year 2	LTIPLICATION AND DIVISION Year 3	ON OF DECIMALS Year 4	Year 5	Year 6
ETF3	rear 1	Teal Z	Tear 3	Tear 4	rear 5	rear o



decimal places by who numbers find the effect of dividing a one- or two-digit number by 10 and 1000 where the answer as ones, tenths and hundredths identify the value of each digit to three decimal places and multiply and divide numbers by 10, 100 and 1000 where the answer as ones, tenths and hundredths 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 as associate a fraction will division and calculate decimal fraction equivalents (e.g. 0.375 for a simple fraction (e.g. 3/s) use written division	=	=		
identify the value of each digit to three decimal places and multiply and divide numbers by 10, 100 and 1000 where the answers are up to three decimal places associate a fraction will division and calculate decimal fraction equivalents (e.g. 0.375 for es. 3/8) use written division methods in cases when the answer has up to			dividing a one- or two- digit number by 10 and 100, identifying the value of the digits in the answer as ones, tenths	numbers with up to two decimal places by whole numbers multiply and divide numbers by 10, 100 and 1000 where the answers are up to three
division and calculate decimal fraction equivalents (e.g. 0.375 for a simple fraction (e.g. ³ / ₈) use written division methods in cases when the answer has up to			and nation cuttis	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
methods in cases when the answer has up to				decimal fraction equivalents (e.g. 0.375) for a simple fraction (e.g. $^{3}/_{8}$)
				methods in cases where the answer has up to

NUMBER: FRACTIONS (including Decimals and Percentages) - PROBLEM SOLVING



EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
			solve problems that involve all of the above	solve problems involving increasingly harder fractions to calculate quantities,	solve problems involving numbers up to three decimal places	
				and fractions to divide quantities, including non-unit fractions where the answer is a whole number		
				solve simple measure and money problems involving fractions and decimals to two decimal places.	solve problems which require knowing percentage and decimal equivalents of $\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{5}$, $\frac{2}{5}$, $\frac{4}{5}$ and those with a denominator of a multiple of 10 or 25.	

RATIO AND PROPORTION- Statements only appear in Year 6 but should be connected to previous learning, particularly fractions and multiplication and division								
Year 6								
						solve problems		

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		1	
			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.

	ALGEBRA - EQUATIONS							
EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6		
40 – 60 months								

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Begins to identify own mathematical problems based on own interests and fascinations. In practical activities and discussion, beginning to use the vocabulary involved in adding and subtracting.	solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as 7 = -9 (copied from Addition and Subtraction)	recognise and use the inverse relationship between addition and subtraction and use this to check calculations and missing number problems. (copied from Addition and Subtraction)	solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction. (copied from Addition and Subtraction) solve problems, including missing number problems, involving multiplication and division, including integer scaling (copied from Multiplication and	use the properties of rectangles to deduce related facts and find missing lengths and angles (copied from Geometry: Properties of Shapes)	express missing number problems algebraically
Records, using marks that they can interpret and explain.		recall and use addition and subtraction facts to	Division)		find pairs of numbers
		20 fluently, and derive and use related facts up to 100 (copied from Addition and Subtraction)			that satisfy number sentences involving two unknowns
	represent and use number bonds and related subtraction facts within 20 (copied from Addition and Subtraction)				enumerate all possibilities of combinations of two variables



	ALGEBRA - FORMULAE							
EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6		
40 – 60 months								
				Perimeter can be expressed algebraically		use simple formulae		
				as 2(a + b) where a and b are the dimensions in the same unit. (Copied from NSG measurement)		recognise when it is possible to use formulae for area and volume of shapes (copied from Measurement)		

	ALGEBRA - SEQUENCES								
EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6			
40 – 60 months									
	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 and direction)				generate and describe linear number sequences			



		MEASUREMENT - COMPARING AND ESTIMATING							
EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6			
Orders and	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]	compare and order lengths, mass, volume/capacity and record the results using >, < and =		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 cm³ 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.			
Orders and sequences familiar events. Uses everyday language related to time	sequence events in chronological order using language [e.g. before and after, next, first, today, yesterday, tomorrow, morning, afternoon and evening]	compare and sequence intervals of time	compare durations of events, for example to calculate the time taken by particular events or tasks						
Measures short periods of time in simple ways.			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 as						



	a.m./p.m., morning, afternoon,		
	noon and midnight (appears also in		
	Telling the Time)		

			MEASUREMENT - MEASURING and	CALCULATING		
EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
40-60 months						
	measure and begin to	choose and use	measure, compare, add and	estimate,	use all four operations	solve problems
	record the following:	appropriate standard	subtract: lengths (m/cm/mm);	compare and	to solve problems	involving the
	* lengths and heights	units to estimate and	mass (kg/g); volume/capacity	calculate	involving measure	calculation and
	* mass/weight	measure	(I/mI)	different	(e.g. length, mass,	conversion of units of
	* capacity and	length/height in any		measures,	volume, money) using	measure, using
	volume	direction (m/cm);		including	decimal notation	decimal notation up
	* time (hours,	mass (kg/g);		money in	including scaling.	to three decimal
	minutes, seconds)	temperature (°C);		pounds and		places where
		capacity (litres/ml)		pence		appropriate
		to the nearest		(appears also in		(appears also in
		appropriate unit,		Comparing)		Converting)
		using rulers, scales,				
		thermometers and				
		measuring vessels				
			measure the perimeter of simple	measure and	measure and calculate	recognise that shapes
			2-D shapes	calculate the	the perimeter of	with the same areas
				perimeter of	composite rectilinear	can have different
				a rectilinear	shapes in centimetres	perimeters and vice
				figure	and metres	versa
				(including		
				squares) in		
				centimetres		
				and metres		

	MEASUREMENT - MEASURING and CALCULATING						
EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	



40-60 months						
Beginning to use	recognise and know	recognise and use	add and subtract amounts of			
everyday	the value of different	symbols for pounds	money to give change, using both			
language related	denominations of coins	<pre>(£) and pence (p);</pre>	£ and p in practical contexts			
to money.	and notes	combine amounts				
		to make a				
		particular value				
		find different				
		combinations of				
		coins that equal the				
		same amounts of				
		money				
		solve simple				
		problems in a				
		practical context				
		involving addition				
		and subtraction of				
		money of the same				
		unit, including				
		giving change				
				find the area	calculate and compare	calculate the area of
				of rectilinear	the area of squares	parallelograms and
				shapes by	and rectangles	triangles
				counting	including using	calculate, estimate
				squares	standard units, square	and compare volume
					centimetres (cm ²) and	of cubes and cuboids
					square metres (m ²)	using standard units,
					and estimate the area	including cubic
					of irregular shapes	centimetres (cm ³)
					o. iii egaiai siiapes	and cubic metres
					recognise and use square	
					numbers and cube	(m ³), and extending
					numbers, and the	to other units [e.g.
						mm ³ and km ³].



			notation for squared (²) and cubed (³) (copied from Multiplication and Division)	recognise when it is possible to use formulae for area and volume of shapes
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		MEASUREMENT - TELLING THE TIME									
EYFS 40-60 months	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6					
Uses everyday language related to time. Orders and sequences familiar events. Measures short periods of time in simple ways.	tell the time to the hour and half past the hour and draw the hands on a clock face to show these times. recognise and use language relating to dates, including days of the week, weeks, months and years	tell and write the time to five minutes, including quarter past/to the hour and draw the hands on a clock face to show these times. know the number of minutes in an hour and the number of hours in a day. (appears also in Converting)	tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour clocks 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 as a.m./p.m., morning, afternoon, noon and midnight (appears also in Comparing and Estimating)	read, write and convert time between analogue and digital 12 and 24-hour clocks (appears also in Converting)							
				solve problems involving converting from hours to minutes; minutes to seconds; years	solve problems involving converting between units of time						





		to months;	
		weeks to days	
		(appears also in	
		Converting)	

	MEASUREMENT - CONVERTING									
EYFS 40-60 months	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6				
		know the number of minutes in an hour and the number of hours in a day. (appears also in Telling the Time)	know the number of seconds in a minute and the number of days in each month, year and leap year	convert between different units of measure (e.g. kilometre to metre; hour to minute)	convert between different units of metric measure (e.g. kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre)	use, read, write and convert between standard units, converting measurements of length, mass, volume and time from a smaller unit of measure to a larger unit, and vice versa, using decimal notation to up to three decimal places				
				read, write and convert time between analogue and digital 12 and 24-hour clocks (appears also in Converting)	solve problems involving converting between units of time	solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate (appears also in Measuring and Calculating)				
				solve problems involving	understand and use equivalences between metric units and	convert between miles and kilometres				



		converting	common imperial	
		from hours to	units such as inches,	
		minutes;	pounds and pints	
		minutes to		
		seconds; years		
		to months;		
		weeks to days		
		(appears also in		
		Telling the		
		Time)		

	GEOMETRY: PROPERTIES OF SHAPES - IDENTIFYING SHAPES AND THIER PROPERTIES							
EYFS 40 – 60 months	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6		
Beginning to use mathematical names for 'solid' 3D shapes and 'flat' 2-D shapes	recognise and name common 2-D and 3-D shapes, including: * 2-D shapes [e.g. rectangles (including squares), circles and triangles]	identify and describe the properties of 2-D shapes, including the number of sides and line		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)		



	* 3-D shapes [e.g. cuboids (including cubes), pyramids and spheres].	symmetry in a vertical line		
Beginning to use mathematical terms to describe shapes.		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 triangle on a pyramid]		illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius

	GEOMETRY: PROPERTIES OF SHAPES - DRAWING AND CONSTRUCTING								
EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6			
40 – 60 months									
			draw 2-D shapes and make 3-D shapes using modelling materials; recognise 3-D shapes in	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			



	different orientations and describe them		Identifying Shapes and Their Properties)

	GEOMETRY: PROPERTIES OF SHAPES - COMPARING AND CLASSIFYING								
EYFS 40 – 60 months	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6			
Selects a particular named shape		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			

	GEOMETRY: PROPERTIES OF SHAPES - ANGLES							
EYFS 40 – 60 months	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6		
			recognise angles as a property of shape or a description of a turn		know angles are measured in degrees: estimate and compare acute, obtuse and			



			reflex angles	
	identify right	identify acute and	identify:	recognise angles where they
	angles,	obtuse angles and	* angles at a point	meet at a point, are on a
	recognise that	compare and	and one whole	straight line, or are vertically
	two right angles	order angles up	turn (total 360°)	opposite, and find missing
	make a half-	to two right	* angles at a point	angles
	turn, three	angles by size	on a straight line	
	make three		and ½ a turn	
	quarters of a		(total 180°)	
	turn and four a		* other multiples	
	complete turn;		•	
	identify		of 90°	
	whether angles			
	are greater than			
	or less than a			
	right angle			
	identify			
	horizontal and			
	vertical lines			
	and pairs of			
	perpendicular			
	and parallel			
	lines			

		GEOMETRY: POSITION, DIRECTION AND MOVEMENT							
EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6			
40-60 months									
Can describe	describe position,	use mathematical		describe positions	identify, describe and	describe positions			
their relative	direction and	vocabulary to describe		on a	represent the position	on the full			
position such as	movement, including	position, direction and		2-D grid as	of a shape following a	coordinate grid			
'behind' or 'next	half, quarter and	movement including		coordinates in the	reflection or	(all four			
bening of flext	three-quarter turns.	movement in a straight		first quadrant	translation, using the	quadrants)			
		line and distinguishing			appropriate language,				



		<u> </u>			motorical contract to
to'.	between rotation as a		describe	and know that the	draw and
	turn and in terms of		movements	shape has not changed	translate simple
They recognise,	right angles for quarter,		between		shapes on the
create and	half and three-quarter		positions as		coordinate plane,
describe	turns (clockwise and		translations of a		and reflect them
patterns. They	anti-clockwise)		given unit to the		in the axes.
explore			left/right and		
characteristics of			up/down		
			plot specified		
everyday objects			points and draw		
and shapes and			sides to complete		
use			a given polygon		
mathematical					
language to					
describe them					

	GEOMETRY: POSITION and DIRECTION - PATTERN							
EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6		
40-60 months								
Uses familiar		order and arrange						
objects and		combinations of						
common shapes		mathematical objects in						
to create,		patterns and sequences						
recreate patterns								
and build								
models.								

	STATISTICS - INTERPRETING, CONSTRUCTING AND PRESENTING DATA						
EYFS 40 – 60 months	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	
		interpret and	interpret and present	interpret and present	complete, read and	interpret and	
		construct simple	data using bar charts,	discrete and	interpret information	construct pie charts	

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pictograms, tally charts, block diagrams and simple tables	pictograms and tables	continuous data using appropriate graphical methods, including bar charts and time graphs	in tables, including timetables	and line graphs and use these to solve problems
ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity				
ask and answer questions about totalling and comparing categorical data				

	STATISTICS - SOLVING PROBLEMS							
EYFS 40 – 60 months	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6		
			solve one-step and two-step questions [e.g. 'How many more?' and 'How many fewer?'] using information presented in scaled bar charts, pictograms and tables.	solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs.	solve comparison, sum and difference problems using information presented in a line graph	calculate and interpret the mean as an average		