



Place Value: Counting

EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Term 1-6	Term 1, 2, 3	Term 1	Term 1	Term 1	Term 1	Term 1
-estimate how many	-count forwards	-count in steps of 2,3 and	-count from 0 in	-count in multiples	-count forwards or	
objects	to and across 100	5 from 0	multiples of 4,8,50	of 6,7,9,25 and	backwards in steps of	
-count on and back to	-count backwards	-count in tens from any	and 100	1000	powers of 10 for any	
and beyond 10	to and across 100	number, forward and	-find 10 or 100 more	-count backwards	given number up to	
-subitise sets of up to	-count from 0 or	backward	or less than a given	through zero to	1,000,000 (million)	
10 objects	1		number	include negative	-count forwards and	
-children understand	-count from any			numbers	backwards with positive	
that as we count each	given number				and negative whole	
number is one more	-count to 100 in				numbers, including	
than the one before	numerals				through zero	
-place numbers from	-count in					
1-20 in order	multiples of twos,					
-count an irregular	fives and tens					
arrangement of						
objects						
-count out the						
required number of						
objects from a large						
group						
-build and identify						
numbers to 20						





Place Value: Repre	esent					
EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Term 1-6	Term 1, 2, 3	Term 1	Term 1	Term 1	Term 1	Term 1
Term 1-6 -identify representations 1-10 -record using marks they can explain -match number names to numerals and quantities -write the correct numeral for a given number -select the correct numeral to represent 1-5, then 1-10 objects -understand that if a 5 frame is full there is 5 -understand 0 is used represented 'nothing there' or 'all gone' -explore different compositions of numbers	Term 1, 2, 3 -identify and represent numbers using objects -identify and represent numbers using pictorial representations -read and write numbers to 100 in numerals -read and write numbers from 1- 20 in numerals and words	Term 1 -read and write numbers to at least 100 in numerals -read and write numbers to at least 100 in words -identify, represent and estimate numbers using different representations, including the number line	-identify, represent and estimate numbers using different representations -read and write numbers up to 1000 in numerals	Term 1 -identify, represent and estimate numbers using different representations -read Roman numerals to 100 -know that over time, the numeral system changed to include the concept of zero and place value	Term 1 -read and write numbers up to at least 1,000,000 -determine the value of each digit in a number up to at least 1,000,000 -read Roman numerals to 1000 and recognise years written in Roman numerals	Term 1 -read and write numbers up to 10,000,000 (10 million). -determine the value of each digit up to at least 10,000,000





Place Value: Use a	nd Compare					
EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Term 1-6	Term 1, 2, 3	Term 1	Term 1	Term 1	Term 1	Term 1
-match objects which are the same -sort objects based on attributes such as colour, shape, size -come up with their own criteria for sorting objects -compare and sort collections of amounts -compare quantities of non-identical objects according to size -use language of more and fewer than -compare groups up to 10 -children recognise that all numbers are made up of smaller numbers	-use language of: equal to, more than, less than (fewer), most, least -given a number, identify one more and one less	 -recognise the place value of each digit in a two-digit number (tens, ones) -compare and order numbers from 0 up to 100 -use <, > and = signs 	 -recognise the place value of each digit in a three-digit number (hundreds, tens, ones) -compare and order numbers up to 1000 	-find 1000 more or less than a given number -recognise the place value of each digit in a four-digit number (thousands, hundreds, tens and ones) -order and compare numbers beyond 1000	-order and compare numbers to at least 1,000,000	-order and compare number up to at least 10,000,000



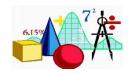


EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Term 1-6	Term 1, 2, 3	Term 1	Term 1	Term 1	Term 1	Term 1
-use place value to	-use place value	-use place value and	-solve number	-round any number	-interpret negative	-round any whole number
solve problems	and number facts	number facts to solve	problems and	to the nearest 10,	numbers in context	to a required degree of
	to solve problems	problems	practical problems	100 or 1000	-round any number up	accuracy
			involving these ideas	-solve number and practical problems that involve all of the above and with increasingly large positive numbers	to 1,000,000 to the nearest 10, 100, 1000, 10,000 and 100,000 -solve number problems and practical problems that involve all of the above	-use negative numbers in context and calculate intervals across zero -solve number and practical problems that involve all of the above





EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
	Term 1, 2	Term 1, 2	Term 1, 2	Term 1, 2	Term 1, 2	
-explore number	-read, write and	-recall and use addition	- estimate the	-estimate and use	-use rounding to check	
bonds to 10 using real	interpret	and subtraction facts	answer to a	inverse operations	answers to calculations	
objects	mathematical	across 10 fluently	calculation	to check answers	and determine, in the	
	statements,	-derive and use related	-use inverse	to a calculation	context of the problem,	
	involving addition	facts up to 100	operations to check		levels of accuracy	
	(+), subtraction (-)	-show that addition of	answers			
	and equals (=)	two numbers can be				
	signs	done in any order				
	-represent and	-show that subtraction of				
	use number	one number from				
	bonds and related	another is not				
	subtraction facts	commutative				
	within 20	-recognise and use the				
	-recall and use	inverse relationship				
	addition and	between addition and				
	subtraction facts	subtraction				
	within 10 fluently	-use the inverse to check				
		calculations				
		-use the inverse to solve				
		missing number problems				





Addition and Subt						
EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Term 1-6	Term 1, 2	Term 1, 2	Term 1, 2	Term 1, 2	Term 1, 2	Term 1, 2
-identify which number is one more or one less than a given number within 20 -recognise patterns when counting one more or one less -add and subtract two single digit numbers using quantities -add and subtract two single digit numbers using objects -count back and count on to find the answer -use language involved with addition and subtraction -children combine two groups and find how many altogether -use objects to see a quantity can be changed by adding more or taking items away	-add and subtract one-digit and two-digit numbers to 20, including zero	-add and subtract numbers using concrete objects -add and subtract numbers using pictorial representations -add and subtraction mentally -add and subtract a two- digit number and ones -add and subtract a two- digit number and tens -add and subtract two two-digit numbers -add three one-digit numbers	-add and subtract numbers mentally including: three-digit number and ones, three-digit number and tens, three-digit number and hundred -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 -use 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) -add and subtract numbers mentally with increasingly large numbers	-perform mental calculations, including with mixed operations and large numbers -use knowledge of the order of operations to carry out calculations involving the four operations





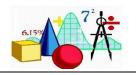
EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Term 1-6	Term 1, 2	Term 1, 2	Term 1, 2	Term 1, 2	Term 1, 2	Term 1, 2
solve problems that	-solve one-step	-solve problems with	-solve problems	-solve addition and	-solve addition and	-solve addition and
nvolve all of the	problems that	addition and subtraction	including missing	subtraction two-	subtraction multi-step	subtraction multi-step
above	involve addition	using concrete objects	number problems	step problems in	problems in contexts,	problems in contexts,
	and subtraction	and pictorial	-solve problems	contexts	deciding which	deciding which
	-use concrete	representations, including	using number facts	-decide which	operations and methods	operations and method
	objects and	those involving numbers,	-solve problems	operations and	to use and why	to use and why
	pictorial	quantities and measures	using place value	methods to use	-solve problems that	-solve problems that
	representations	-solve problems with	-solve problems	and why	involve all of the above	involve all of the above
	to solve problems	addition and subtraction,	using more complex	-solve problems		
	-solve missing	applying their increasing	addition and	that involve all of		
	number problems	knowledge of mental and	subtraction	the above		
	(7=9)	written methods	-solve problems that			
	-solve problems	-solve problems that	involve all of the			
	that involve all of	involve all of the above	above			
	the above					





EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
		Term 2, 3	Term 2, 3	Term 2, 3	Term 1, 2	Term 1, 2
		-recall and use	-recall and use	-recall	-identify multiples and	-identify common factor
		multiplication and	multiplication and	multiplication and	factors, including	common multiples and
		division facts for the 2, 5	division facts for the	division facts for	finding all factor pairs of	prime numbers
		and 10 multiplication	3, 4 and 8	multiplication	a number and common	-use estimation to che
		tables	multiplication tables	tables up to 12x12	factors of two numbers	answers to calculation
		-recognise odd and even		-use place value,	-know and use the	and determine, in the
		numbers		known and derived	vocabulary of prime	context of the probler
		-show that multiplication		facts to multiple	numbers, prime factors	an appropriate degree
		of two numbers can be		and divide mentally	and composite (non-	accuracy
		done in any order		-multiply by 0 and	prime) numbers	
		-show that division of one		1	-establish whether a	
		number by another is not		-divide by 1	number up to 100 is	
		commutative		-multiply together	prime and recall prime	
				three numbers	numbers up to 19	
				-recognise and use	-recognise and use	
				factor pairs	square numbers and	
				-understand	cube numbers and the	
				commutativity in	notation for squared	
				mental calculations	and cubed	





Multiplication and Division: Calculations EYFS Year 1 Year 2

EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Term 5, 6		Term 2, 3	Term 2, 3	Term 2, 3	Term 1, 2	Term 1, 2
 -understand that a pair is 2 and match to make pairs -understand double means 'twice as many' -build doubles using objects -double quantities and objects -compare doubles and non-doubles -halve quantities and objects by sharing -share objects and quantities -check that the items are shared equally and that everyone has the same -recognise and make equal groups -begin to understand that quantities which can be shared with no items left over are even -notice odd and even structures on number shapes 		-calculate mathematical statements for multiplication and division within the multiplication tables -write calculations using the multiplication (x), division and equals (=) signs	-write and calculate mathematical statements for multiplications and division using the multiplication tables they know, including two-digit numbers times one digit numbers, using mental and <i>progressing</i> to formal written methods	-multiply two-digit and three-digit numbers by a one- digit number using formal written layout -use the distributive law to multiply two digit numbers by one digit	-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 and divide numbers mentally drawing upon known facts -divide numbers up to 4 digits by a one-digit number using the formal written method of short division and interpret remainders appropriately for the context -multiply and divide whole numbers and those involving decimals by 10, 100 and 1000	 -multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication -divide numbers up to 4 digits by a two-digit whole number using the formal written method of long division -when dividing, interpret remainders as whole number remainders, fractions or by rounding (as appropriate for the context) -divide numbers up to 4 digits by a two-digit number using the formal written method of short division, interpreting remainders according to the context -multiply and divide whole numbers and those involving decimals by 10, 100 and 1000 -use knowledge of the order of operations to carry out calculations involving the four operations





EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Term 5, 6	Term 1, 2	Term 1, 2	Term 1, 2	Term 1, 2	Term 1, 2	Term 1, 2
-begin to solve problems involving doubling, halving and sharing	-solve one-step problems involving multiplication and division by calculating the answer using concrete objects, pictorial representations and arrays WITH THE SUPPORT OF A TEACHER	-solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods and multiplication and division faces, including problems in context -solve problems that involve all of the above	-solve problems including missing number problems, involving multiplication and division - solve positive integer scaling problems and correspondence problems in which n objects are connected to m objects -solve problems that involve all of the above	-solve problems involving multiplying and adding -solve integer scaling problems -solve harder correspondence problems such as n objects are connected to m objects -solve problems that involve all of the above	-solve problems involving multiplication and division including using their knowledge of factors and multiples, squares and cubes -solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates -solve problems involving the four operations and a combination of these, including understanding the meaning of the equals sign -solve problems that involve all of the above	-solve problems involving addition, subtraction, multiplication and division -solve problems that involve all of the above



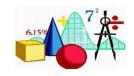


EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
	Term 4	Term 4	Term 3, 4	Term 3, 4	Term 2	
	-recognise, find	-recognise, find, name	-count up and down	-count up and	-identify, name and	
	and name a half	and write fractions 1/3,	in tenths	down in	write equivalent	
	as one of two	1/4, 2/4 and 3/4 of a	-recognise that	hundredths	fractions of a given	
	equal parts of an	length, shape, set of	tenths arise from	-recognise that	fraction, represented	
	object or shape	objects	dividing an object	hundredths arise	visually, including	
	-recognise, find	-recognise, find, name	into 10 equal parts	when dividing an	tenths and hundredths	
	and name a half	and write fractions 1/3,	and in dividing one-	object by one	-recognise mixed	
	of a quantity	1/4, 2/4, 3/4 of a quantity	digit numbers or	hundred and	numbers and improper	
	-recognise, find		quantities by 10	dividing tenths by	fractions and convert	
	and name a		-recognise, find and	ten	from one form to the	
	quarter as one of		write fractions of a		other and write	
	four equal parts		discrete set of		mathematical	
	of an object or		objects: unit		statements >1 as a	
	shape		fractions and non-		mixed number (e.g. 2/5	
	-recognise, find		unit fractions with		+4/5 = 6/5 = 1 1/5)	
	and name a		small denominators			
	quarter of a		-recognise and use			
	quantity		fractions as			
			numbers: unit			
			fractions and non-			
			unit fractions with			
			small denominators			





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EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
		Term 4	Term 3, 4	Term 3, 4	Term 2	Term 2
ractional Calcul		-recognise the equivalence of 2/4 and 1/2	-recognise and show, using diagrams, equivalent fractions with small denominators -compare and order unit fractions, and fractions with the same denominators	-recognise and show, using diagrams, families of common equivalent fractions	-compare and order fractions whose denominators are all multiples of the same number	-use common factors to simpl fractions -use common multiples to express fractions in the same denomination -compare and order fractions including fractions >1
Fractions: Calcula EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
		Term 4	Term 3, 4	Term 3, 4	Term 2	Term 2
		-write simple factions, for example: 1/2 of 6 = 3	-add and subtract fractions with the same denominator within one whole (5/7 + 1/7 = 6/7)	-add and subtract fractions with the same denominator -use fractions to divide quantities, including non-unit fractions where the answer is a whole number	-add and subtract fractions with the same denominator and denominators that are multiples of the same number -multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams	-add and subtract fractions wi different denominators and mixed number, using the concept of equivalent fraction -multiply simple pairs of prop- fractions, writing the answer i its simplest form (1/4 X 1/2 = 1/8) -divide proper fractions by whole numbers (1/3 divided b 2 = 1/6)





Decimals: Recogn	ise and Write					
EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
				Term 4, 5	Term 3	Term 3
			-	-recognise and	-read and write decimal	-identify the value of each
				write decimal	numbers as fractions	digit in numbers given to
				equivalents of any	(e.g. 0.71 = 71/100)	three decimal places
				number of tenths	-recognise and use	
				or hundredths	thousandths and relate	
				-recognise and	them to tenths,	
				write decimal	hundredths and decimal	
				equivalents to 1/4,	equivalents	
				1/2, 3/4		
Decimals: Compar	re					
EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
				Term 4, 5	Term 3	
			-	-round decimals	-round decimals with	
				with one decimal	two decimal places to	
				place to the	the nearest whole	
				nearest whole	number and to one	
				number	decimal place	
				-compare numbers	-read, write, order and	
				with the same	compare numbers with	
				number of decimal	up to three decimal	
				places up to two	places	
				decimal places		





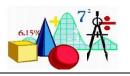
Decimals: Ca	lculations					
EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
				Term 4, 5		Term 3
			-	-find the effect of		-multiply and divide numbers by 10,
				dividing a one or		100 and 1000 giving answers up to
				two-digit number by		three decimal places
				10 and 100,		-multiply one-digit numbers with up to
				identifying the value		two decimal places by whole numbers
				of the digits in the		-use written division methods in cases
				answer as ones,		where the answer has up to two
				tenths and		decimal places
				hundredths		
Fractions, De	ecimals and Percei	ntages Combir	ned			
EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
					Term 2, 3	Term 2, 3
			-		-recognise the percent	-associate a fraction with division and
					symbol and understand	calculate decimal fraction equivalents
					that percent relates to	for a simple fraction (3/8 or 0.375)
					'number of parts per	-recall and use equivalences between
					hundred'	simple fractions, decimals and
					-write percentages as a	percentages, including in different
					fraction with a	contexts
					denominator of 100 and as	
					a decimal	





ions, Decli	mais and Percentag	es: Solve Problems				
EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
	Term 4	Term 4	Term 3, 4	Term 3, 4, 5	Term 2, 3	Term 2, 3
	-solve problems	-solve problems involving	-solve problems that	-solve problems	-solve problems	-solve problems whic
	involving all of	all of the above	involve all of the	involving increasingly	involving number up	require answers to be
	the above		above	harder fractions to	to three decimal	rounded to specified
				calculate quantities	places	degrees of accuracy
				-solve simple	-solve problems which	-solve problems that
				measure and money	require knowing	involve all of the above
				problems involving	percentage and	
				fractions and	decimal equivalents of	
				decimals to two	1/2, 1/4, 1/5, 2/5, 4/5	
				decimal places	and those fractions	
				-solve problems that	with a denominator of	
				involve all of the	a multiple of 10 or 25	
				above	-solve problems that	
					involve all of the	
					above	





Ratio and Proportion

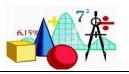
EYFS	Year 1	Year 2	Year 3	Year 4	Year 5		Year 6
							Term 4
			-			-solve	problems involving the relative sizes of two
						quant	ities where missing values can be found by
						-	integer multiplication and division facts
							problems involving calculation of
							ntages (e.g. 15% of 360) and the use of
							ntages for comparison
							problems involving similar shapes where th
							factor is known or can be found
							problems involving unequal sharing and
						group	ing using knowledge of fractions and
obra - Alth	ough algebrai	ic notati	ion is not introduced	until Vear 6, algebra	ic thinking sta	multi	
-	ough algebrai er' objectives			until Year 6, algebra	ic thinking sta		arlier as exemplified by the
	• •	s from Y1		until Year 6, algebra Year 3	ic thinking sta Year 4		
ssing numb	er' objectives	s from Y1 r 1	1/Y2/Y3			rts much e	arlier as exemplified by the
ssing numb	er' objectives Year	r 1 1, 2	1/Y2/Y3 Year 2	Year 3		rts much e	earlier as exemplified by the Year 6
ssing numb	er' objectives Year Term	r 1 1, 2 ssing	1/Y2/Y3 Year 2 Term 1, 2	Year 3 Term 1, 2		rts much e	Year 6 Term 3
ssing numb	er' objectives Year Term -solve mis	r 1 1, 2 sing problems	1/Y2/Y3 Year 2 Term 1, 2 -recognise and use the inverse relationship to solve missing number	Year 3 Term 1, 2 -solve problems,		rts much e	earlier as exemplified by the Year 6 Term 3 -use simple formulae -generate and describe linear number sequences
ssing numb	er' objectives Year Term -solve mis number p	r 1 1, 2 sing problems	1/Y2/Y3 Year 2 Term 1, 2 -recognise and use the inverse relationship to	Year 3 Term 1, 2 -solve problems, including missing		rts much e	earlier as exemplified by the Year 6 Term 3 -use simple formulae -generate and describe linear number sequences -express missing number problems
ssing numb	er' objectives Year Term -solve mis number p	r 1 1, 2 sing problems	1/Y2/Y3 Year 2 Term 1, 2 -recognise and use the inverse relationship to solve missing number	Year 3 Term 1, 2 -solve problems, including missing		rts much e	earlier as exemplified by the Year 6 Term 3 -use simple formulae -generate and describe linear number sequences -express missing number problems algebraically
ssing numb	er' objectives Year Term -solve mis number p	r 1 1, 2 sing problems	1/Y2/Y3 Year 2 Term 1, 2 -recognise and use the inverse relationship to solve missing number	Year 3 Term 1, 2 -solve problems, including missing		irts much e	earlier as exemplified by the Year 6 Term 3 -use simple formulae -generate and describe linear number sequences -express missing number problems algebraically -find pairs of numbers that satisfy an
issing numb	er' objectives Year Term -solve mis number p	r 1 1, 2 sing problems	1/Y2/Y3 Year 2 Term 1, 2 -recognise and use the inverse relationship to solve missing number	Year 3 Term 1, 2 -solve problems, including missing		irts much e	earlier as exemplified by the Year 6 Term 3 -use simple formulae -generate and describe linear number sequences -express missing number problems algebraically -find pairs of numbers that satisfy an equation with two unknowns
issing numb	er' objectives Year Term -solve mis number p	r 1 1, 2 sing problems	1/Y2/Y3 Year 2 Term 1, 2 -recognise and use the inverse relationship to solve missing number	Year 3 Term 1, 2 -solve problems, including missing		irts much e	earlier as exemplified by the Year 6 Term 3 -use simple formulae -generate and describe linear number sequences -express missing number problems algebraically -find pairs of numbers that satisfy an





Measurement: Usi	ng Measures					
EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Term 5, 6	Term 3, 6	Term 3, 6	Term 3, 4	Term 3, 4	Term 3, 4	Term 3, 4
-use everyday	-measure and	-choose and use	-measure, compare,	-convert between	-convert between	-use, read, write and
language to talk about	begin to record	appropriate standard	add and subtract	different units of	different units of	convert between
size, weight, capacity,	lengths and	units to estimate and	lengths (m/cm/mm)	measure (e.g. km to	metric measure (km	standard units,
distance	heights	measure length and	-measure, compare,	m, hour to minute)	and m, cm and m, cm	converting
-use everyday	-measure and	height in any direction,	add and subtract	-estimate, compare	and mm, g and kg, l	measurements of length,
language to compare	begin to record	temperature and capacity	mass (kg/g)	and calculate	and ml)	mass, volume and time
and order quantities	mass/weight	-choose and use	-measure, compare,	different measures	-understand and use	from a smaller unit of
and objects according	-measure and	appropriate standard	add and subtract		approximate	measure to a larger unit
to size	begin to record	units to estimate and	volume/capacity		equivalences between	of measure and vice
-compare and order	capacity and	measure to the nearest	(l/ml)		metric units and	versa, using decimal
quantities according	volume	appropriate unit using			common imperial	notation up to three
to mass (heavy,	-measure and	rulers, scales,			units such as inches,	decimal places
heavier, light, lighter)	begin to record	thermometers and			pounds and pints	-convert between miles
-compare and order	time (hours,	measuring vessels				and km
capacity using	minutes, seconds)	-compare and order				
language such as full,		lengths, mass,				
empty		volume/capacity				
-use specific		<pre>-use <, > and = to record</pre>				
mathematical		results of comparisons				
vocabulary to						
compare length and						
height (tall, short)						



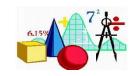


Measurement: Money EYFS Year 1 Year 2 Year 3 Year 4 Year 5 Year 6 Term 1-6 Term 1, 2 Term 1, 2 Term 5 Term 5 -recognise and use -use everyday -recognise and -add and subtract -estimate, compare language to talk about know the value of symbols for pounds (£) amounts of money and calculate money to compare difference and pence (p) to give change, using different measures, quantities and objects denominations of -combine amounts to both £ and p in including money in make a particular value coins and notes practical contexts pounds and pence -find combinations of coins that equal the same amounts of money





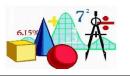
Measurement: Tin	ne					
EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Term 1, 2	Term 5	Term 5	Term 5	Term 5		Term 3, 4
-use everyday	-sequence events	-compare and sequence	-tell and write the time	-read, write and		-use, read, write and
language to talk about	in chronological	intervals of time	from an analogue clock,	convert time		convert between
time (positional	order using	-draw the hands on a	including using Roman	between analogue		standard units,
language, class	language	clock face to show these	numerals, and 12-hour	and digital 12 and		converting
routines)	-recognise and	times	and 24-hour clocks	24-hour clocks		measurements of time
-children talk about	use language	-know the number of	-estimate and read time			from a smaller unit of
night and day and use	relating to dates,	minutes in an hour and	with increasing accuracy			measure to a larger unit,
this language to	including days of	the number of hours in a	to the minute			and vice versa
describe when events	the week, weeks,	day	-record and compare			
happen	months and years	-tell and write the time to	time in terms of second,			
-begin to order and	-to tell the time	five minute intervals	minutes and hours			
sequence events	to the hour and	(including quarter past/to	-use vocabulary such as			
-describe significant	half past the hour	the hour)	o'clock, am/pm,			
events in their lives	-draw the hands		morning, afternoon,			
and talk about things	on a clock to		noon and midnight			
they are looking	show the hour		-know the number of			
forward to	and half past the		seconds in a minute and			
	hour		the number of days in			
			each month, year and			
			leap year			
			-compare durations of			
			events			



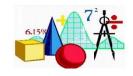


/leasurement: Pe	easurement: Perimeter, Area and Volume								
EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6			
			Term 3	Term 3	Term 3, 4	Term 3, 4			
			-measure the perimeter of simple 2D shapes	-measure and calculate the perimeter of a rectilinear figure (including squares) in cm and m -find the area of rectilinear shapes by counting squares	-measure and calculate the perimeter of composite rectilinear shapes in cm and m -calculate and compare the area of rectangles (including squares) -use standard units, square cm (cm2) and square m (m2) -estimate the area of irregular shapes -estimate volume and capacity (e.g. using cubes and water)	 -recognise that shapes with the same areas can have different perimeters and vice versa -recognise when it is possible to use formulae for area and volume of shapes -calculate the area of parallelograms and triangles -calculate, estimate and compare volume of cubes and cuboids using standard units including cubic cm (cm3) and cubic meters (m3) and extending to other units (e.g. mm3 and km3) 			





Measurement: So	lve Problems					
EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Term 1-6	Term 1, 2, 3, 5 , 6	Term 1, 2, 3, 5, 6	Term 3, 4, 5	Term 3, 4, 5	Term 3, 4	Term 3, 4
-solve problems that	-compare, describe	-solve simple problems	-solve problems that	-solve problems	-use all four	-solve problems involving
involve all of the	and solve practical	in a practical context	involve all of the	involving converting	operations to solve	calculation and
above	problems for	involving addition and	above	from hours to	problems involving	conversion of units of
	lengths and heights	subtraction of money of		minutes, minutes to	measure (e.g. length,	measure, using decimal
	-compare, describe	the same unit, including		second, years to	mass, volume, money)	notation up to three
	and solve practical	giving change.		months, weeks to	using decimal	decimals places where
	problems for	-solve problems that		days	notation, including	appropriate
	mass/weight	involve all of the above		-solve problems that	scaling	-solve problems that
	-compare, describe			involve all of the	-use all four	involve all of the above
	and solve practical			above	operations to solve	
	problems for				problems involving	
	capacity and				measures (money)	
	volume				-solve problems	
	-compare, describe				involving converting	
	and solve practical				between units of time	
	problems for time				-solve problems that	
	-solve problems				involve all of the	
	that involve all of				above	
	the above					





Geometry: 2D Sha	pes					
EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Term 3, 4, 5, 6	Term 4	Term 4	Term 6	Term 6	Term 5	Term 5
-recognise shapes on everyday items inside and outside -use mathematical language to describe 2D shapes -explore characteristics of 2D shapes -select a particular named shape -create their own 2D shapes -explore and investigate relationships between numbers and shapes	-recognise and name common 2D shapes	-identify and describe the properties of 2D shapes -identify number of sides on a shape -identify line symmetry in a vertical line -identify 2D shapes on the surface of 3D shapes (e.g. a circle on a cylinder) -compare and sort common 2D shapes and everyday objects	-draw 2D shapes	-compare and classify geometric shapes, including quadrilaterals ad triangles, based on their properties and sizes -identify lines of symmetry in 2D shapes presented in different orientations	-distinguish between regular and irregular polygons based on reasoning about equal sides and angles -use the properties of rectangles to deduce related facts and find missing lengths and angles	-draw 2D shapes using given dimensions and angles -compare and classify geometric shapes based on their properties and sizes illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius





Geometry: 3D Sha	pes					
EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Term 3, 4, 5, 6	Term 4	Term 4	Term 6		Term 5	Term 5
 -use mathematical language to describe 3D shapes -explore and manipulate 3D shapes -explore characteristics of 3D shapes -use mathematical language to describe everyday objects -explore characteristics of everyday objects -select a particular named shape -explore and investigate relationships between numbers and shapes 	-recognise and name common 3D shapes	-recognise and name common 3D shapes -identify the number of edges, vertices and faces on 3D shapes -compare and sort 3D shapes and everyday objects	-make 3D shapes using modelling materials -recognise 3D shapes in different orientations -describe 3D shapes		-identify 3D shapes, including cubes and cuboids, from 2D representations	-recognise, describe and build simple 3D shapes, including making nets





EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
			Term 6	Term 6	Term 5	Term 5
			recognise angles as a property of shape or 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 or less than a right angle -identify horizontal and vertical lines -identify pairs of perpendicular and parallel lines	Ierm 6 -identify acute and obtuse angles -compare and order angles up to two right angles by size -complete a simple symmetric figure with respect to a specific line of symmetry	-know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles -draw given angles and measure them in degrees -identify angles at a point and one whole turn (360 degrees) -identify angles at a point on a straight line and 1/2 turn (180 degrees) -identify other multiples of 90 degrees	-find unknown angles in any triangles, quadrilaterals and regular polygons -recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles



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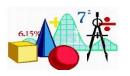
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Mathematics Progression in Skills at Fawkham CEP School



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EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Term 3, 4, 5, 6	Term 5	Term 5		Term 6	Term 5	Term 5
use positional language to describe how items are positioned in relation to other tems recognise, copy, continue and create a widening range of repeat patterns, which use tems more than once in each repeat, and symmetrical constructions match arrangements of shapes using positional anguage select and rotate shapes to fill a given space explain why a particular shape s chosen or why it won't fit understand that shapes can be combined and separated to form new shapes know that places and models can be replicated understand that we can make maps and plans to represent places and use these to see where things are in relation to other things	-describe position, direction and movement including whole, half, quarter and three quarter turns	-order and arrange combinations of mathematical objects in patterns and sequences -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 on a 2D 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	-identify, describe and represent the position of a shape following a reflection or translations, using the appropriate language, and know that the shape has not changed	-describe positions on the full coordinate grid (all four quadrants) -draw and translate simple shapes on the coordinate plane and reflect them in the axes
Geometry: Solve P	roblems					
EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Term 3, 4, 5, 6	Term 4, 5	Term 4, 5	Term 6	Term 6	Term 5	Term 5
-solve problems that	-solve problems	-solve problems that	-solve problems that	-solve problems that	-solve problems that	-solve problems that

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EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
		Term 3	Term 6	Term 6	Term 4, 5	Term 4, 5
	Ive Problems		-interpret and present data using bar charts, pictograms and tables	-interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs	-complete, read and interpret information in tables, including timetables	-interpret and construct pie charts and line graphs -calculate and interpret the mean as an average
EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
		Term 3	Term 6	Term 6	Term 4, 5	Term 4, 5
		-solve problems that involve all of the above	-solve one-step and two-step questions using information presented in scaled bar charts and pictograms and tables (e.g. how many more? how many fewer?)	-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	-use pie charts and line graphs to solve problems -solve problems that involve all of the above