



	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Place Value	Early number	Sort, represent	Count forwards	Represent	Represent numbers	Read, write,	Read, write,
	sense:	and count	and backwards	numbers to	to 1,000	order and	order and
	counting	objects to 20	and compare	1,000		compare	compare
			numbers within		100s, 10s and 1s	numbers to at	numbers up to
	Numbers:	Introduce <, >	20 and 50	100s, 10s and 1s	Numberlinete	least 1 000 000	10 000 000 and
	Reading and	anu =	Count objects	Number line to		and determine	determine the
	numbers	Ordinal	and represent		1,000	the value of each	value of each
	numbers	numbers	numbers in 100	1,000	Find 1, 10, 100 and	digit	digit
	Subitise with		and write in	Find 1, 10, 100	1,000 more or less	aiBit:	aigit.
	numbers 1-5	Using a number	words and	more or less		Count forwards	Round any
		line	numerals	than a given		or backwards in	whole number to
	Compare			number	Compare numbers	stops of powers	a required
	numbers	Count forwards	Use place value			steps of powers	a required
	within 1-5	and backwards	chart	Compare		of 10 for any	degree of
	understanding	up to 100	Compare and	objects and	Ouden number	given number up	accuracy.
	the cardinal		order objects	numbers to	Order numbers	to 1 000 000	
	number	Write numbers	and numbers	1,000	Count in 1 000s		Use negative
	number.	10 100	Count in 2s 3s 5s	Order numbers	count in 1,0003	Interpret	numbers in
	Ordering	Tens and ones	and 10s		Count in 25s	negative numbers	context, and
	numbers:	Tens and ones	Know 10 more	Count in 50s		in context, count	calculate
	Number	One more and	and 10 less		Round to the	forwards and	intervals across
	representation	one less			nearest 10, 100	backwards with	zero.
			Compare money		and 1,000	positive and	
		Compare				negative whole	Solve number
		groups of			Partitioning	numbers,	and practical
							problems that





the second second second second second second second							
		objects and numbers Order groups of objects and numbers Introducing a 100 square Partitioning numbers			Number line to 10,000 Negative numbers Roman numerals to 100	including through zero. Round any number up 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 . Read Roman numerals to 1000 (M) and recognise years written in Roman numerals.	involve all of the above
Addition and Subtraction	Finding one more than a number	Intro parts and wholes (single and group object)	Know addition and subtraction fact families to 20	Add and subtract multiples of 100	Add and subtract 1s, 10s, 100s and 1,000s	Roman numerals. Add and subtract whole numbers with more than 4	Solve addition and subtraction multi step





Finding one less than a number Number bonds Automatically recall number bonds for numbers 0-5.	Part-whole model Addition symbol Addition facts Find and make number bonds to 10 and 20 Compare number bonds Addition - adding together Addition - adding more Addition using bonds Finding a part	Check calculations and compare number sentences Know bonds to 100 Know 10 more and 10 less Add and subtract 10s Add and subtract one digit and 2 digit numbers from 2 digit numbers not crossing and crossing 10 Mixed addition and subtraction activities Know bonds to 100 Add 3 1 digit	Add and subtract 1s Add and subtract 3-digit and 1-digit numbers – not crossing 10 Add a 2-digit and 1-digit number - crossing 10 Add 3-digit and 1-digit numbers – crossing 10 Add 3-digit and 2-digit numbers – crossing 10 Add 3-digit and 2-digit numbers – crossing 10 Add two 2-digit numbers - crossing 10 - add ones & add tens Add and	Add two 3-digit numbers - not crossing 10 or 100 Add two 4-digit numbers – no exchange Add two 3-digit numbers - crossing 10 or 100 Add two 4-digit numbers – one exchange and more than one exchange	digits, including using formal written methods (columnar addition and subtraction). Add and subtract numbers mentally with increasingly large numbers.	problems in contexts, deciding which operations and methods to use and why. Solve problems involving addition, subtraction, multiplication and division. Use estimation to check answers to calculations and determine in the context of a problem, an appropriate degree of accuracy.
	Finding a part Subtraction – crossing out	Add 3 1 digit numbers	Add and subtract a 2- digit and 3-digit			





		Find totals and	numbers – not		
	Subtraction –	differences and	crossing 10 or		
	using the	find change	100		
	symbol				
			Add a 2-digit		
	Subtraction-		and 3-digit		
	find a part		numbers –		
			crossing 10 or		
	Subtraction –		100		
	counting back			Subtract a 3-digit	
	-		Add two 3-digit	number from a 3-	
	Subtraction –		numbers – not	digit number - no	
	finding the		crossing 10 or	exchange	
	difference		100 and crossing		
			10 or 100	Subtract two 4-	
	Comparing			digit numbers – no	
	addition and		Subtract a 1-	exchange	
	subtraction		digit number		
	statements		from 2-digits -		
			crossing 10	Subtract a 3-digit	
	Add by			number from a 3-	
	counting on			digit number -	
	within 20		Subtract a 1-	exchange	
			digit number		
	Add by making		from a 3-digit	Subtract two 4-	
	10		number –	digit numbers –	
			crossing 10	one exchange and	
	Subtractions –			more than one	
	not crossing 10		Subtract 3-digit	exchange	
			and 2-digit		





Subtraction -	numbers – not		
crossing 10	crossing 100		
	_		
	Subtract a 2-		
	digit number		
	from a 2-digit		
	number		
	crossing 100		
	Add and		
	subtract 100s		
	Subtract a 2-		
	digit number		
	from a 2-digit		
	number -		
	crossing 10		
	Spot the pattern		
	– making it		
	explicit		
	explicit	Estimate answers	
	Subtract a 2	Efficient	
	digit number	cubtraction	
		SUDITACTION	
	from a 3-digit		
	number –		
	crossing 10 or	Checking strategies	
	100		
	Subtract a 3-		
	digit number		





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-				from a 3-digit number – no exchange and exchange Estimate answers to calculations			
Multiplication and Division	Doubling numbers Sharing and halving numbers	Count in 2's Count in 5's Count in 10's Make and add equal groups Make arrays Make doubles Make equal groups – grouping Make equal groups - sharing	Make equal groups Add equal groups Make arrays Recognise make and add equal groups Multiplication using x symbol Make doubles X2 x5 x10 times tables Divide by 2 5 and 10	Multiplication – equal groups Multiplication using the symbol Using arrays 2, 3, 4, 5 and 8 times-table Make equal groups - sharing and grouping Multiply by 3, 4, 5 and 10	6, 7, 9, 11 and 12 times-tables 6, 7, 9, 11 and 12 times table and division facts Multiply by 10 and 100	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 (nonprime) numbers. Establish whether a number up to 100 is prime and	Multiply multi- digit number up to 4 digits by a 2 digit number using the formal written method of long multiplication. Divide numbers up to 4 digits by a 2 digit whole number using the formal written method of long division, and interpret remainders as whole number





			Multiply by 1 and 0	recall prime	remainders,
				numbers up to	fractions or by
			Divide by 10 and	19.	rounding as
		Divide by $2, 3, 5$	100		appropriate for
			Multiply and divide	Recognise and	the context.
			by 3, 6	use square	
				numbers and	Divide numbers
			Divide by 1 and	cube numbers,	up to 4 digits by
			itself	and the notation	a 2 digit number
				for squared (2)	using the formal
		Multiply 2 digit	Multiply 2-algits by	and cubed (3).	written method
		bv 1-digit	1 0.51		of short division,
				Solve problems	interpreting
			Divide 2-digits by 1- digit	involving	remainders
		Divide 2-digit by		multiplication	according to
		1-digit		and division	context.
			Divide 3-digits by 1-	including using	
			Multinly 3 numbers	their knowledge	Perform mental
			Multiply 5 Humbers	of factors and	calculations,
			Factor pairs	multiples,	including with
		Scaling		squares and	mixed
			Efficient	cubes.	operations and
			multiplication		large numbers.
			Written methods	Multiply and	Identify common
			whiten methods	divide numbers	factors, common
				mentally drawing	





		Correspondence	upon known	multiples and
		problems	facts.	prime numbers.
			Multiply numbers	Use their
			up to 4 digits by a	knowledge of
			one or two digit	the order of
			number using a	operations to
			formal written	carry out
			method,	calculations
			including long	involving the
			multiplication for	four operations.
			2 digit numbers.	
			Divide numbers	
			up to 4 digits by a	
			one digit number	
			using the formal	
			written method	
			of short division	
			and interpret	
			remainders	
			appropriately for	
			the context.	
			Solve problems	
			involving addition	





						and subtraction, multiplication and division and a combination of these, including understanding the use of the equals sign.	
Fractions (Decimals and Percentages)	Halving	Making a half Making a whole Find a half of a quantity Making a quarter	Make equal parts Recognise and findhalf a third and a quarter Count in fractions	Recognise and find half, quarter and third Unit and non- unit fractions Equivalence ½	What is a fraction? Unit and non-unit fractions	Compare and order fractions whose denominators are multiples of the same number. Identify, name	Use common factors to simplify fractions; use common multiples to express fractions in the same
		Find a quarter Find a quarter of a quantity Find a quarter	Fraction problem solving	Equivalent fractions Count in fractions Making the whole	Equivalent fractions Count in fractions Tenths	and write equivalent fractions of a given fraction, represented visually including tenths and hundredths.	denomination. Compare and order fractions, including fractions > 1 Generate and describe linear





		Count in tenths	Recognise mixed	number
	Tenths		numbers and	sequences (with
	Count in tenths		improper	fractions)
	count in tentis		fractions and	
	Tenths as		convert from one	Add and subtract
	decimals		form to the other	fractions with
		Fractions of a set of	and write	different
	Fractions on a	objects	mathematical	denominations
	number line		statements >1 as	and mixed
	Eractions of a		a mixed number .	numbers, using
	set of objects			the concept of
			Add and subtract	equivalent
			fractions with the	fractions.
	Compare	Add fractions	same	
	fractions	Add 2 or more	denominator and	Multiply simple
	Onder freetiere		denominators	pairs of proper
	Order fractions	Tractions	that are multiples	fractions, writing
	Add fractions	Subtract fractions	of the same	the answer in its
			number.	simplest form.
		Subtract 2 fractions		
			Multiply proper	Divide proper
		Subtract from	fractions and	fractions by
	Subtract	whole amounts	mixed numbers	whole numbers.
	Tractions	Fractions greater	by whole	
		than 1	numbers,	Associate a
			supported by	fraction with





		Calculate fractions	materials and	division and
		of a quantity	diagrams.	calculate decimal
		Drehlen eeking		fraction
		calculate quantities	Read and write	equivalents [for
		calculate qualitities	decimal numbers	example, 0.375]
			as fractions .	for a simple
				fraction.
			Solve problems	
			involving	Recall and use
		Recognise tenths	multiplication	equivalences
		and hundredths	and division,	between simple
		Tenths as decimals	including scaling	fractions,
			by simple	
		Tenths on a place	fractions and	including in
		value grid	problems	different
		_	involving simple	contexts
		Tenths on a	rates.	
		number line		
		Divide 1-digit by 10		
		Divide 2-digits by		
		10		
		Hundredths		
		Hundredths as		
		decimals		





					Hundredths on a place value gridDivide 1 or 2-digits by 100Bonds to 10 and 100Make a wholeWrite decimalsCompare decimalsOrder decimalsRound decimalsHalves and quarters as decimals		
Geometry	Shape Compare numbers within 1-5 understanding the cardinal	Recognise and name 3D shapes Sort 3D shapes	Recognise 2 and 3D shape Count sides and vertices on 2D shape	Turns and angles Right angles in shapes Compare angles	Turns and angles Right angles in shapes Compare angles	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 and multiply





value of each	Recognise and	Lines of		Identify angles		numbers by 10,
number.	name 2D	symmetry			Recognise and	100 and 1000
_	shapes			Compare and order	use thousandths	giving answers
Patterns	Cart 2D shares	Count faces		angles	and relate them	up to 3dp.
Continuo	Soft 2D shapes	edges and			to tenths,	
conv and	Patterns with	shane			hundredths and	Multiply one
create	3D and 2D	Shape	Draw accurately		decimal	digit numbers
repeating	shapes	Describe	,	Horizontal and	equivalents.	with up to 2dp
patterns.		position	Horizontal and	vertical		bv whole
	Describe turns		vertical		Round decimals	numbers.
	_	Describe			with two decimal	
	Describe	movement and	Parallel and		places to the	Use written
	position	turns	perpendicular	Pocognico and	nearest whole	division methods
			Recognise and	describe 2-D	number and to	in cases where
			describe 2-D	shapes	one decimal	the answer has
			shapes		place.	up to two
					p	decimal places.
			Recognise and		Solve problems	
			describe 3-D		involving number	Solve problems
			snapes		un to three	which require
			Make 3-D		decimal places	answers to be
			shapes	What is area?	deelindi pidees.	rounded to
					Recognise the ner	specified
				Comparing area	cent symbol (%)	degrees of
					and understand	
				Counting squares	that nor cont	accuracy.
					that per cent	





		Making shapes	relates to	Solve problems
			'number of parts	involving the
		Triangles	per hundred', and	calculation of
		Quadrilatorals	write percentages	percentages [for
		Quaurilaterais	as a fraction with	example, of
		Lines of symmetry	denominator 100,	measures and
		, ,	and as a decimal.	such as 15% of
		Complete a		360] and the use
		symmetric figure	Solve problems	of percentages
			which require	for comparison.
			knowing	
			percentage and	Recall and use
			decimal	equivalences
			equivalents of	between simple
			and those	FDP including in
			fractions with a	different
			denominator of a	contexts.
			multiple of 10 or	
			25.	
			Solve problems	
			involving number	
			up to three	
			decimal places.	





						Multiply and divide whole numbers and those involving decimals by 10, 100 and 1000. Use all four operations to solve problems involving measure [for example, length, mass, volume, money] using decimal notation, including scaling.	
Measurement	Weight Length and width Time Capacity	Compare length Compare heights	Measure and compare length in cm and m Four operations and problem solving with length	O'clock and half past Quarter past and quarter to Months and years	Years, months, weeks and days	Identify 3D shapes, including cubes and other cuboids, from 2D representations.	Illustrate and name parts of circles, including radius, diameter and circumference and know that





Measuring length -non- standardTell time to the hour half hour quarter hour and to 5 rulerTell time to the hour half hour quarter hour and to 5 minutesHours in a day secondsUse the thours, minutes and rectangles to telling the time to 5 minutesUse the thour, minutesthe diameter twice hard rectangles to and angles.Adding length problemsWriting time timeTelling the time to 5 minutesTelling the time to 5 minutesTelling the time to the minuteTowa 20 sha using given and angles.Towa 20 sha using given and sizes and find massing and sizes and find unknow and sizes and find unknow and sizes and and regular polygons based						
4 operations times angles, and find missing with mass and volume output angles, and angles.	Measuring lengthnon- standard Introducing a ruler Adding length problems Subtracting length problems Introducing weight and mass Measure and compare mass Weight and mass problems	Tell time to the hour half hour quarter hour and to 5 minutes Writing time Find and compare durations of time Introduce weight and mass Compare and measure weight and mass Introduce capacity and volume in millilitres and litres	Hours in a day Telling the time to 5 minutes Telling the time to the minute Using a.m. and p.m. 24-hour clock Finding and comparing the duration Comparing	 Hours, minutes and seconds Telling the time to 5 minutes Telling the time to the minute Using a.m. and p.m. 24-hour clock Analogue to digital – 12 hour and 24 hour 	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. Know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles.	the diameter is twice the radius. Draw 2D shapes using given dimensions and angles. Compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals and regular polygons. 2 Recognise angles where they meet at a point, are on a straight line, or are vertically
	Introducing capacity and volume	4 operations with mass and volume	durations Start and end times		reflex angles. Draw given angles, and	at a point, are on a straight line, or are vertically opposite, and find missing angles.





	Measure and compare capacity Recognising coins Counting in coins Before and after Dates Time to the hour Time to half the hour Writing time Comparing time	Temperature activity	Measuring time in seconds Measure length in m, cm and mm Equivalent length in cm & mm and m & cm Compare lengths Add and subtract lengths Measure and calculate perimeter	Equivalent lengths - m & cm and mm & cm Add and subtract lengths Kilometres Measure perimeter Perimeter on a grid Perimeter of a rectangle Perimeter of rectilinear shapes	measure them in degrees (o). Identify: angles at a point and one whole turn (total 3600), angles at a point on a straight line and ½ a turn (total 1800) other multiples of 900. Identify, describe and represent the position of a shape following a reflection or translation, using the appropriate language, and know that the shape has not	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.
	time				language, and know that the shape has not changed.	





		Compare mass		
		Measure mass		
		Add and		
		subtract mass		
		C		
		Compare		
		volume		
		Measure		
		capacity		
			Pounds and pence	
		Compare		
		capacity		
			Convert pounds	
		Add and	and pence	
		subtract		
		capacity	Add and subtract	
			money	
		Temperature		
		·	Find change	
		Count money	Ordering money	
		(nounds and	010,011,011,011,011,011,011,011,011,011	
		(poundo una nence)	Estimating money	
		pencej	Lotinating money	
		Convert pounds		
		and nence		
		Add and		
		subtract monev		
		,		





Statistics		Make tally charts Draw pictograms Interpret pictograms Block diagrams	Make a tally chart Draw and interpret pictograms (2, 5 and 10) Draw and interpret bar charts Draw and interpret tables	Interpret charts Comparison, sum and difference Introducing line graphs Draw and interpret line graphs	measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres calculate and compare the area of rectangles (including squares), and including using standard units, square centimetres (cm2) and square metres (m2) and estimate the area of irregular shapes.	Solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate. 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,





			Convert between	using desired
			Convert between	using decimal
			different units of	notation to up to
			metric measure	3dp.
			[for example, km	
			and m; cm and m;	Convert between
			cm and mm; g	miles and
			and kg; I and ml].	kilometres.
			Understand and	Recognise that
			use approximate	shapes with the
			equivalences	same areas can
			between metric	have different
			units and	perimeters and
			common imperial	vice versa.
			units such as	
			inches, pounds	Recognise when
			and pints.	it is possible to
				use formulae for
			Solve problems	area and volume
			involving	of shapes.
			converting	
			between units of	Calculate the
			time.	area of
				parallelograms
			Estimate volume	and triangles.
			[for example	





the second second second second second second second second				
			using 1cm3 blocks to build cuboids (including cubes)] and capacity [for example, using water]. Use all four operations to solve problems involving measure.	Calculate, estimate and compare volume of cubes and cuboids using standard units, including cm3, m3 and extending to other units (mm3, km3).
Algebra			Solve comparison, sum and difference problems using information presented in a line graph. Complete, read and interpret information in	Interpret and construct pie charts and line graphs and use these to solve problems. Calculate the mean as an average.





			tables including timetables.	
				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.
				Enumerate
				possibilities of
				combinations of
				two variables.
				Solve problems
				involving the
				relative sizes of





