# Mathematics Curriculum Overview



Identified areas of weakness from gap analysis: Autumn Spring Summer

## **EYFS**

Autumn	Transition	Match	n, Sort and	Talk ab	out measure	It's me 1, 2, 3	Circles and triangl	es	1,2, 3, 4, 5	Shapes with 4
	and	Co	mpare	and	patterns	Find 1, 2 and 3	Identify and name circles and		Find 4 and 5	sides
	baseline Match objects		ojects	Compare size Subitise 1,		Subitise 1, 2	triangles		Subitise 4 and 5	Identify and name
	assessment	Match pi	ctures and	Compare mass		and 3	Compare circles and tria	ingles	Represent 4 and 5	shapes with 4
	'Getting to	objects		Compar	e capacity	Represent 1, 2	Shapes in the environme	ent	1 more	sides
	know you'	Identify a	set	Explore	simple	and 3	Describe position		1 less	Combine shapes
		Sort obje	cts to a type	patterns	5	1 more			Composition of 4	with 4 sides
		Explore s	orting	Copy an	d continue	1 less			and 5	Shapes in the
		techniqu	es	simple p	atterns	Composition			Composition of 1-5	environment
		Create so	orting rules	Create s	imple	of 1, 2 and 3				My day and night
		Compare	amounts	patterns	5					
Spring	Alive i	n 5	Mass and C	apacity	Growi	ng 6, 78	Length, height and	Bu	ilding 9 and 10	Explore 3D shapes
' "	Introduce ze	ro	Comparing n	nass	Find 6, 7 and	8	time	Find 9 a	nd 10	Recognise and
	Find 0 to 5		Find a baland	ce	Represent 6,	7 and 8	Explore length	Compar	e numbers to 10	name 3D shapes
	Subitise 0 to	5	Explore capa	city	1 more		Compare length	Represe	ent 9 and 10	Find 2D shapes
	Represent 0	to 5	Compare cap	pacity	1 less		Explore height	Concept	tual subitising to 10	within 3D shapes
	1 more				Composition	of 6, 7 and 8	Compare height	1 more		Use 2D shapes for
	1 less				Make pairs –	odd and even	Talk about time	1 less		tasks
	Composition				Double to 8 (f	ind a double)	Order and sequence	Compos	sition to 10	3D shapes in the
	Conceptual s	ubitising			Double to 8 (r	make a double)	time	Bonds to	o 10 (2 parts)	environment
	to 5				Combine 3 gr	oups		Make ar	rangements to 10	Identify more
					Conceptual su	ubitising		Bonds to	o 10 (3 parts)	complex patterns
								Doubles	to 10 (find a	Copy and continue
								double)		patterns
								Doubles	to 10 (make a	Patterns in the
								double)		environment
								Explore	even and odd	





Summer	To 20 and beyond	How many now?	Manipulate, compose and	Sharing and grouping	Visualise, build and map	Make connections
	Build numbers	Add more	decompose	Explore sharing	Identify units of repeating	Deepen
	beyond 1o (10-13)	How many did I add?	Select shapes for a	Sharing	patterns	understanding
	Continue patterns	Take away	purpose	Explore grouping	Create own pattern rules	Patterns and
	beyond 10 (10-13)	How many did I take	Rotate shapes	Grouping	Explore own pattern rules	relationships
	Build numbers	away?	Manipulate shapes	Even and odd sharing	Replicate and build scenes and	
	beyond 10 (14-20)		Explain shape	Play with and build	constructions	
	Continue patterns		arrangements	doubles	Visualise from different	
	beyond 10 (14-20)		Compose shapes		positions	
	Verbal counting		Decompose shapes		Describe positions	
	beyond 20		Copy 2D shape pictures		Give instructions to build	
	Verbal counting		Find 2D shapes within 3D		Explore mapping	
	patterns		shapes		Represent maps with models	
					Create own maps from familiar	
					places	
					Create own maps and plan	
					from story situations	



Autumn	Place Value (10)			and subtraction (10)		nape	
	Week 1-5			Week 6-10	Week 11 Recognise and name 3D shapes Sort 3D shapes Recognise and name 2D shapes		
	Sort objects		Introducing parts and	wholes			
	Count objects		Part-whole model				
	Count objects from group of 10		Write number sentend	ces			
	Represent objects		Fact families – additio	n facts	Sort 2D shapes		
	Represent numbers to 10		Number bonds within	10	Patterns with 3D and 2D sh	apes	
	Recognise numbers as words		Systematic number bo	onds within 10			
	Count on from any number		Number bonds to 10				
	Count one more		Addition – add togeth	er			
	Count backwards within 10		Addition – add more				
	Count one less		Addition problems				
	Compare groups by matching		Find a part				
	Fewer, more, same		Subtraction – find a pa	art			
	Less than, greater than, equal to		Fact families – the eig	ht facts			
	Compare numbers		Subtraction – take awa	ay/cross out			
	Order objects and numbers		Subtraction – take away				
	The number line		Subtraction on a numl	per line			
			Add or subtract 1 or 2				
Spring	Place Value (within 20)	Addition a	nd Subtraction (within	Place Value (within 50)	Length and Height	Mass and Volume	
-1 0	Week 1 -3		20)	Week 7 – 8	Week 9 - 10	Week 11 - 12	
	Count within 20		Week 4 – 6	Count from 20 to 50	Compare lengths and	Heavier and lighter	
	Understand 10	Add by cou	nting on within 20	20, 30, 40 and 50	heights	Measure mass	
	Understand 11, 12, 13	Add ones u	sing number bonds	Count by making groups of tens	Measure length using	Compare mass	
	Understand 14, 15, 16	Find and m	ake number bonds to	Groups of tens and ones	objects	Full and empty	
	Understand 17, 18, 19	20		Partition into tens and ones	Measure length in	Compare volume	
	Understand 20	Doubles		The number line to 50	centimetres	Measure capacity	
	1 more 1 less	Near doubl	es	Estimate on a number line to 50		Compare capacity	
	The number line to 20	Subtract or	nes using number	1 more 1 less			
	Use a number line to 20						
	Estimate on a number line to 20	Subtraction	n – counting back				
	Compare numbers to 20	Subtraction	n - finding the				
	Order numbers to 20	difference					
		Related fac	ts				





		Missing number proble	ems			
Summer	Multiplication and	Fractions	Position and direction	Place Value (100)	Money	Time
	Division	Week 4 – 5	Week 6	Week 7- 8	Week 9	Week 10 - 11
	Week 1 – 3	Recognise half of an object	Describe turns	Count from 50 – 100	Unitising	Before and after
	Count in 2s	or shape	Describe position – left and	Tens to 100	Recognise coins	Days of the week
	Count in 10s	Find a half of an object or	right	Partition into tens and ones	Recognise notes	Months of the year
	Count in 5s	shape	Describe position –	The number line to 100	Count in coins	Hours, minutes,
	Recognise equal groups	Recognise half of a quantity	forwards and backwards	1 more 1 less		seconds
	Add equal groups	Find a half of a quantity	Describe position – above	Compare numbers with the		Tell the time to the
	Make arrays	Recognise a quarter of an an	and below	same number of tens		house
	Make doubles	object or a shape	Ordinal numbers	Compare any two numbers		Tell the time to half
	Make equal groups –	Find a quarter of an object or				hour
	grouping	a shape				
	Make equal groups –	Recognise a quarter of a				
	sharing	quantity				
		Find a quarter of a quantity				



### Statements in blue highlight the teacher assessment framework

Autumn	Place Value
	Week 1 – 4
	Numbers to 20
	Count objects to 100 by making 10s
	Recognise tens and ones
	Use a place value chart
	Partition numbers to 100
	Write numbers to 100 in words
	Flexibly partition numbers to 100
	Write numbers to 100 in expanded form
	10s on the number line to 100
	10s and 1s on the number line to 100
	Estimate numbers on a number line
	Compare objects
	Compare numbers
	Order objects and numbers
	Count in 2s, 5s and 10s
	Count in 3s

### Addition and subtraction Week 5 – 9

Bonds to 10

Fact families – addition/subtraction within 20

Related facts

Bonds to 100 (tens)

Add and subtract 1s

Add by making 10

Ad 3 1 digit numbers

Add to the next 10

Add across a 10

Subtract across 10

Subtract from a 10

Subtract a 1 digit from a digit (across a 10)

10 more, 10 less

Add and subtract 10s

Add two 2 digit numbers (not across a 10)

Add two 2 digit numbers (across a 10)

Subtract two 2 digit numbers (not across a 10) Subtract two 2 digit numbers (across a 10)

Mixed addition and subtraction Compare number sentences

Missing number problems

#### TAF GDS

Use reasoning about numbers and relationships to solve more complex problems and explain their thinking (e.g. 29 + 17 = 15 + 4 +; 'together Jack and Sam have £14. Jack has £2 more than Sam. How much money does Sam have?' etc.) Solve unfamiliar word problems that involve more than one step (e.g. 'which has the most biscuits, 4 packets of biscuits with 5 in each packet or 3 packets of biscuits with 10 in each packet?')

#### Shape Week 10 – 12

Recognise 2D and 3D shapes Count sides on 2D shapes Count vertices on 2D shapes

Draw 2D shapes

Lines of symmetry on shapes

Use lines of symmetry to complete shapes

Sort 2D shapes

Count faces on 3D shapes

Count edges on 3D shapes

Count vertices on 3D shapes

Sort 3D shapes

Make patterns with 2D and 3D shapes

#### TAF GDS

Describe similarities and differences of 2-D and 3-D shapes, using their properties (e.g. that two different 2-D shapes both have only one line of symmetry; that a cube and a cuboid have the same number of edges, faces and vertices, but different dimensions).





Spring	Multiplication and Division	n	Money			Fractions		Time	
	Week 1 – 5		Week 6 -	7	W	'eek 8 – 11		Week 12 – 13	
	Recognise equal groups		Count money – pence		Introduction	to parts and wholes	O'clock and half past		
	Make equal groups		Count money – pounds		Equal and unequal parts		Quarter past and quarter to		
	Add equal groups		Count money – pence	e and	Recognise a l	half	Tell time past the hour		
	Introduce multiplication symbol		pounds		Find a half		Tell time to	Tell time to the house	
	Multiplication sentences		Choose notes and co	ins	Recognise a	quarter	Tell time to	5 minutes	
	Use arrays		Make the same amou	unt	Find a quarte	er	Minutes in	an hour	
	Make equal groups – grouping		Compare amounts of	money	Recognise a	third	Hours in a d	day	
	Make equal groups – sharing		Calculate with money	y	Find a third				
	The 2 times table		Make a pound		Find the whole				
	Divide by 2		Find change		Unit fraction	S			
	Doubling and halving		Two-step problems		Non-unit frac	ctions			
	Odd and even numbers				Recognise ec	juivalence of a half			
	10 times table				and two quarters Recognise three quarters				
	Divide by 10								
	5 times table				Find three qu	uarters			
	Divide by 5				Count in frac	tions up to a whole			
	The 5 and 10 times table								
	TAF GDS								
	Recall and use multiplication and	d							
	division facts for 2, 5 and 10 and	l make							
	deductions outside known								
	multiplication facts								
Summer	Time		Statistics	Length ar	nd Height	Mass, capacity and to	emperature	Position and Direction	
	Week 1 – 2		Week 3 – 4	Weel	c 5- 6	Week 7 -	9	Week 10 - 11	
	O'clock and half past	Make ta	lly charts	Measure in c	entimetres	Compare mass		Language of position	
	Quarter past and quarter to	Tables		Measure in m	netres	Measure in grams		Describe movement	
	Tell time past the hour	Block dia	agrams	Compare leng	gths and	Measure in kilogram	S	Describe turns	
	Tell time to the house	Draw pic	ctograms (Scale 1)	heights		Four operations with	miss	Describe movement and	
	Tell time to 5 minutes	Interpre	t pictogram (Scale 1)	Order lengths	and heights	Compare volume and	d capacity	turns	
	Minutes in an hour	Draw pic	ctograms (2, 5, 10)	Four operation	ns with	Measure in millilitres	5	Shape patterns with turns	
	Hours in a day			lengths and h	eights	Measure in litres			



Interpret pictograms (2, 5, 10)	Four operations with volume and capacity Temperature
TAF GDS Read scales where not all numbers on the scale are given and estimate points in between	

### Year 3

Autumn	Place Value	Addition and subtraction	Multiplication
	Week 1 - 3	Week 4 – 8	Week 9 – 12
	Represent numbers to 100	Apply number bonds within 10	Multiplication – equal groups
	Partition numbers to 100	Add and subtract 1s	Use arrays
	Number line to 100	Add and subtract 10s	Multiples of 2
	Hundreds	Add and subtract 100s	Multiples of 5 and 10
	Represent numbers to 1,000	Spot the pattern	Sharing and grouping
	Partition numbers to 1,000	Add 1s across a 10	Multiply by 3
	Flexible partitioning of numbers to 1,000	Add 10s across a 100	Divide by 3
	Hundreds, tens and ones	Subtract 1s across a 10	The 3 times table
	Find 1, 10, 100 more or less	Subtract 10s across a 100	Multiply by 4







	Number line to 1,000		Make connect	ions	ns		Divide by 4	
	Estimate on a number line to 1,000		Add 2 numbers	s (no excha	nge)	T	he 4 times table	
	Compare numbers to 1,000		Subtract 2 nun	nbers (no e	xchange)	N	1ultiply by 8	
	Order numbers to 1,000		Add 2 numbers	s (across a	10)	D	Divide by 8	
	Count in 50s		Add 2 numbers	,		T	The 8 times table	
			Subtract 2 nun			T	he 2, 4 and 8 times ta	bles
			Subtract 2 nun	nbers (acro	ss a 100)			
			Add 2 digit and	d 3 digit nui	mbers			
			Subtract a 2 di	git from a 3	digit number			
			Complements	to 100				
			Estimate answ	ers				
			Inverse operat	ions				
			Make decision	S				
Spring	Multiplication and division		Length and Perir	neter	Fractions		Mass a	and capacity
	Week 1 – 3		Week 4 – 6			9	Week 10 - 12	
	Multiples of 10	Mea	asure in M and CN	VI	Understand denominators		Use scales	
	Related calculations	Mea	asure in MM	ure in MM Compare and order unit fractions ure in CM and MM Understand numerator – non unit		Measure mass in grams		
	Reasoning about multiplication	Mea	asure in CM and N			r – non unit		
	Multiply 2 digit by 1 digit - no	Equ	Equivalent lengths M and CM fractions			Equivalent masses	(KG and G)	
	exchange	•	ivalent length CN	1 and MM	Understand the whole		Compare mass	
	Multiply 2 digit by 1 digit – exchang		Compare lengths		Compare and order non-unit		Add and subtract mass	
	Link multiplication and division	Add	lengths		fractions	fractions		ind volume in ML
	Divide 2 digit by 1 digit – no exchan	ge Sub	tract lengths		Fractions and scales		Measure capacity a	ind volume in L and ML
	Divide 2 digit by 1 digit – flexible	Wh	at is perimeter		Fractions on a number	line	Equivalent capacitie	es ML and L
	partitioning	Cald	culate perimeter		Count in fractions on a	number line	Compare capacity a	and volume
	Divide a 2 digit by 1 digit – remaind	ers			Equivalent fractions		Add and subtract ca	apacity and volume
	Scaling							
	How many ways							
				T				
Summer	Fractions		Money		Time		Shape	Statistics
	Week 1 – 2		/eek 3 - 4		Week 5 - 7		/eek 8 – 9	Week 10 – 12
	Add fractions		and pence		umerals to 12	Turns and ar	~	Interpret pictograms
	Subtract fractions		pounds and		me to 5 minutes	Right angles		Draw pictograms
	Partition the whole	pence		Tell the ti	ell the time to the minute Compar		Compare angles Interpret bar cl	





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Unit fractions of a set of objects	Add money	Reading time on a digital clock	Measure and draw accurately	Draw bar charts	
Non-unit fractions of a set of	Subtract money	Use AM and PM	Horizontal and vertical	Collect and represent	
objects	Find change	Years, months and days	Parallel and perpendicular	data	
Reasoning with fractions of an		Days and hours	Recognise and describe 2D	Two-way tables	
amount		Hours and minutes using start	shapes		
		and end times	Draw polygons		
		Hours and minutes using	Recognise and describe 3D		
		durations	shapes		
		Minutes and seconds	Make 3D shapes		
		Units of time			
		Solve problems with time			



Autumn	Place Value	Addition and	d subtraction	Area	Multiplication and Division	
	Week 1 – 4		<b>(5-7</b>	Week 8	Week 9 - 11	
	Represent numbers to 1,000	Add and subtract 1s, 10s,	100s and 1,000s		Multiples of 3	
	Partition numbers to 1,000	Add up to 2 4 digit number	_		P Multiply and divide by 6	
	Number line to 1,000	Add 2 4 digit numbers – 1	exchange	Count square	6 times table and division facts	
	Thousands	Add 2 4 digit numbers – n	nore than 1 exchange	Make shapes	Multiply and divide by 9	
	Represent numbers to 10,000	Subtract 2 4 digit number	s – no exchange	Compare are	as 9 times table and division facts	
	Partition numbers to 10,000	Subtract 2 4 digit number	s – one exchange		The 3, 6 and 9 times tables	
	Flexible partitioning of numbers to	Subtract 2 4 digit number	s – more than 1 exchange		Multiply and divide by 7	
	10,000	Efficient subtraction			7 times table and division facts	
	Find 1, 10, 100, 1,000 more or less			11 times table and division facts		
	Number line to10,000			12 times table and division facts		
	Estimate on a number line to 10,000				Multiply y 1 and 0	
	Compare numbers to 10,000				Divide a number by 1 and itself	
	Order numbers to 10,000					
R	Roman numerals					
	Round to nearest 10					
	Round to nearest 100					
	Round to nearest 1,000					
	Round to nearest 10, 100 or 1,000					
Spring	Multiplication and division	Length and Perimeter	Fractions		Decimals	
Spring	Week 1 – 3	Week 4 - 5	Week 6 – 9		Week 10 - 12	
	Multiply three number	Measure in KM and M	Understand the whole		Tenths as fractions	
	Factor pairs	Equivalent lengths KM	Count beyond 1		Tenths as decimals	
	Use factor pairs	and M	Partition a mixed number	•	Tenths on a place vale chary	
	Multiply by 10	Perimeter on a grid	Number lines with mixed	numbers	Tenths on a number line	
	Multiply by 100	Perimeter of a rectangle	Compare and order mixed	d numbers	Divide 1 digit by 1	
	Divide by 100	Perimeter of rectilinear	Understand improper frac	ctions	Divide 2 digit by 10	
	Divide by 10	shapes	Convert mixed numbers t	o improper	Hundredths as fractions	
	Divide by 100	Missing lengths of	fractions		Hundredths as decimals	
	Related facts	rectilinear shapes	Convert improper fraction	ns to mixed	Hundredths on a place value chart	
	Informal written methods for	Calculate the perimeter	numbers		Divide 1 or 2 digit number by 100	
	multiplication and division	of rectilinear shapes	Equivalent fractions on a	number line		





	Multiply a 2 digit by 1 digit Divide 2 digit by 1 digit Divide 3 digit by 1 digit Correspondence problems Efficient multiplication  Perimeter of regul polygons Perimeter of polygons Perimeter of polygons				Add 2 or more fractions				
Summer	Decimals Week 1 - 2 Make a whole with tenths Make a whole with hundredths Partition decimals Flexibly partition decimals Compare decimals Order decimals Round to the nearest whole number Halves and quarters as decimals	Week 1 - 2  Whole with tenths Whole with ths I decimals Partition decimals Compare amounts of money Estimate with money Calculate with money Solve problems with money The nearest Compare amounts of money Estimate with money Calculate with money Solve problems with money The nearest Compare amounts of money Estimate with money Calculate with money Solve problems with money The nearest Compare amounts of money Estimate with money The nearest Compare amounts of money Estimate with money Calculate with money The nearest Compare amounts of money Estimate with money The nearest Compare amounts of money Estimate with money The nearest Compare amounts of money Estimate with money The nearest compare amounts of mo		days Hours, Covert digital Covert	Time Week 5 – 6 months, weeks and , minutes and seconds t between analogue and times t to the 24 hour clock rt from the 24 hour	Shape Week 8 – 9 Understand angles as turns Identify angles Compare and order angles Triangles Quadrilaterals Polygons Lines of symmetry Complete a symmetric figure	Statistics Week 10 Interpret charts Comparison, sum and difference Interpret line graphs Draw line graphs	Position/Direction Week 11 – 12 Describe position using coordinates Plot coordinates Draw 2D shapes on a rid Translate on a grid Describe translation on a grid	



Autumn	Place Value	Addition and subtraction	Multiplication/Division		actions			
	Week 1 – 3	Week 4 - 5	Week 6 – 8		ek 9 - 12			
	Roman numerals to 1,000	Mental strategies	Multiples	Find fractions equivalent	Find fractions equivalent to a unit fraction			
	Numbers to 10,000	Add whole numbers with more	Common multiples	Find fractions equivalent	Find fractions equivalent to a non-unit fraction Recognise equivalent fractions Convert improper fractions to mixed numbers Convert mixed numbers to improper fractions			
	Numbers to 100,000	than 4 digits	Factors	Recognise equivalent fra				
	Numbers to 1,000,000	Subtract whole numbers with	Common factors	Convert improper fraction				
	Read and write numbers to	more than 4 digits	Prime numbers	Convert mixed numbers				
	1,000,000	Round to check answers	Square numbers	Compare fractions less the	nan 1			
	Powers of 10	Inverse operations (addition	Cube numbers	Order fractions less than	Order fractions less than 1			
	10/100/1,000/10,000/100,000	and subtraction)	Multiply by 10, 100, 1,000	Compare and order fract	ions greater than 1			
	more or less	Multi-step addition and	Divide by 10, 100, 1,000	Add and subtract fraction	Add and subtract fractions with the same			
	Partition numbers to 1,000,000	subtraction problems	Multiples of 10, 100 and 1,00	0 denominator	denominator			
	Number line to 1,000,000	Compare calculations		Add fractions within 1	Add fractions within 1			
	Compare and order numbers to	Find missing numbers		Add fractions with a tota	l greater than 1			
	100,000			Add to a mixed number				
	Compare and order numbers to			Add 2 mixed numbers				
	1,000,000			Subtract fractions				
	Round to the nearest 10, 100,			Subtract from a mixed no	Subtract from a mixed number			
	1,000			Subtract from a mixed no	umber – breaking the whole			
	Round within 100,000	d within 100,000		Subtract 2 mixed numbe	rs			
	Round within 1,000,000							
Spring	Multiplication and division	Fractions	Decimals and Percentages	Perimeter and area	Statistics			
	Week 1 - 3	Week 4 – 5	Week 6 – 8	Week 9 – 10	Week 11 – 12			
	Multiply up to a 4 digit number	Multiply a unit fraction by an	Decimals up to 2 decimal	Perimeter of rectangles	Draw line graphs			
	by a 1 digit	integer	places	Perimeter of rectilinear	Read and interpret line			
	Multiply a 2 digit by a 2 digit	Multiply a non-unit fraction by	Equivalent fractions and	shapes	graphs			
	Multiply a 2 digit by a 2 digit	an integer	decimals (tenths)	Perimeter of polygons	Read and interpret tables			
	Multiply 3 digit number by 2 digit	Multiply a mixed number by an	Equivalent fractions and	Area of rectangles	Two-way tables			
	number	integer decimals (hundredths)		Area of compound shapes	Read and interpret			
	Multiply 4 digit by 2 digit	Calculate a fraction of a	Equivalent fractions and	Estimate area	timetables			
	Solve problems	quantity	decimals					
	Short division	Fraction of an amount	Thousandths as fractions					
	Divide 4 digit by 1 digit	Find the whole	Thousandths as decimals					
	Divide with remainders	Use fractions as operators	Thousandths on a place					
	Efficient division		value chart					





	Solve problems				Order and compare					
					decimals (same decir	nal				
					place)					
				Order and compare any						
					decimals up to 3 decimal					
					places					
					Round to the nearest	to the nearest whole				
					number					
					Round to 1 decimal p	lace				
					Understand percenta	ages				
					Percentages as fracti	ons				
					Percentages as decin	nals				
					Equivalent fractions,					
					decimals and percent	tages				
Summer	Geometry	Po	sition and Direction	Decimals		Negative Numbers		Converti	ing Units	Volume
	Week 1 - 3		Week 4 - 5		Week 6 – 8		Week 9		10 – 11	Week 12
	Understand and use	Read	Read and plot coordinates		Use known facts to add and		Understand negative		ns and	Cubic
	degrees	Prob	Problem solving with		subtract decimals within 1		numbers		es	centimetres
	Classify angles	coord	coordinates		Complements to 1		Count through zero in 1s		res and	Compare volume
	Estimate angles	Trans	slation	Add and s	ubtract decimals	Count through 0 in multiples Compare and order negative numbers		millilitres Convert units of length		Estimate volume
	Measure anges up to 180	Trans	slation with	across 1						Estimate
	Draw lines and angles	coord	dinates	Add decin	nals with the same					capacity
	accurately		of symmetry	number o	f decimal places			Convert	between	
	Calculate angles around a	Refle	ction in horizontal and	Subtract decimals with the		Find the difference		metric a	nd	
	point	verti	vertical lines		same number of decimals			imperial	units	
	Calculate angles on a				Add decimals with different			Convert	units of	
	straight line			number of decimal places				time		
	Lengths and angles in			Subtract c	Subtract decimals with			Calculate	e with	
	shapes			different r	numbers of decimal			timetable	es	
	Regular and irregular				places					
	polygons			Efficient strategies for adding						
	3D shapes			and subtracting decimals						
				Decimal sequences						
				Multiply b	y 10, 100 and 1000					
				Divide by	10, 100 and 1000					



	Multiply and divide by		
	decimals – missing values.		



Autumn	Place Value		ction, multiplication and		tions	Converting Units	
	Week 1 – 2		ivision		8 – 11	Week 12	
	Numbers to 1,000,000	We	ek 3 - 7	Equivalent fractions a	Metric measures		
	Numbers to 10,000,000	Add and subtract int	egers	Equivalent fractions o	n a number line	Convert metric measures	
	Read and write numbers to	Common factors		Compare and order (c	lenominator)	Calculate with metric	
	10,000,000	Common multiples		measures Miles and kilometres			
	Powers of 10	Rules of divisibility					
	Number line to 10,000,000	Primes to 100		Add and subtract any	two fractions	Imperial measures	
	Compare and order any	Square and cube nur	mbers	Add mixed numbers			
	integers	Multiply up to a 4 dig	git number by a 2 digit	Subtract mixed numb	ers		
	Round any integer	number		Multi-step problems			
	Negative numbers	Solve problems with	multiplication	nultiplication Multiply fractions by integers			
		Short division		Multiply fractions by f			
		Division using factors	S	Divide a fraction by ar			
		Introduction to long	division				
		Long division with re	mainders Mixed questions with fractions				
		Solve problems with	division	Fraction of an amount	t		
		Solve multi-step prol	plems Fraction of an amount – find the whole		t – find the whole		
		Order of operations					
		Mental calculations	and estimation				
		Reason from known	facts				
Spring	Ratio	Algebra	Decimals	Fractions, Decimals	Area, perimeter and	Statistics	
	Week 1 - 2	Week 3 – 4	Week 5 - 6	and Percentages	volume	Week 11 - 12	
	Add or multiply	1 step function	Place value within 1	Week 7 – 8	Week 9 - 10	Line graphs	
	Use ratio language	machines	Place value integers	Decimal and fraction	Shapes – same area	Dual bar charts	
	Introduction to the ratio	2 step function	and decimals	equivalents Area and perimeter		Read and interpret pie	
	symbol	machines	Round decimals	Fractions as division	Area of a triangle –	charts	
	Ratio and fractions	Form expression	Add and subtract	Understand	counting squares	Pie charts with	
	Scale drawing	Substitution	decimals	percentages Area of a right angle		percentages	
	Use scale factors	Formulae	Multiply by 10, 100,	Fractions as triangle		Draw pie charts	
	Similar shapes	Form equations	1000	percentages	Area of a parallelogram	The mean	
	Ratio problems	1 step problems	Divide by 10, 100,	Equivalent fractions,	Volume – counting cube	es	
	Proportion problems	2 step problems	1000	decimals and	Volume of a cuboid		
	Recipes	Find pairs of values	Multiply decimals by integers	percentages			





		Solve problen unknowns	ns with 2	Multiply and divide decimals in context	Order fracti decimals an percentage Percentage amount – o Percentage amount – m Percentage missing valu	of an of an ne step of an nulti step s –		
Summer	Geometry Week 1- 3 Measure and classify angles Calculate angles Vertically opposite angles Angles in a triangle Angles in a triangle – special Angles in a triangle – missing Angles in quadrilaterals Angles in polygons Circles Draw shapes accurately Nets of 3D shapes	l cases		plot points in four quadra plems with coordinates ns			Consolidation and then	ned projects