



	Guidance Areas	Au	tumn	Sp	ring	Sun	nmer
	Aicus	Term 1	Term 2	Term 1	Term 2	Term 1	Term 2
	Topic(s) (Application Topics)	Geometry	 2d shapes asurement Size 		Number and Place Value (Numbers to 4) Measurement		Numbers to 5) Numbers to 5) (Please note: pictorial. Stem sentences to tence)
Nursery	Procedural/ Conceptual Skills	 Number sense to 3 Visual Patterns Number songs and rhymes Composition of numbers to 3 Concept images to 3 Correspondence 1:1 Exploration of numbers and numerals to 5 Numerals of significant importance Matching like for like Stable order count Itemising Tagging Selecting a small number of objects from a group Describing size 2D shapes Capacity Exploring shape through construction/loose parts Anticipating specific time-based events such as mealtimes or home time 		 Movement patterns composition of numbers to 4 Concept images to 4 Cardinality Conservation of number Exploration of 'more' Sharing objects Sorting – exact matching/sorting by a single attribute Categorising Introduction of 5 frames reciting numbers in order to 5 Exploring language of time Explorations of space/area Positional language Numbers in the environment 		 Number sense to 5+ Temporal patterns Numeral patterns Composition of numbers to 5 Concept images to 5 Exploration of more/less Sharing into equal parts Introduced to simple board games Subitising to 5 Practical combining/addition Number bonds to 5 Sorting and categorising by given and own criteria Exploration of same/different Assigning numeral to quantity Weight Practical subtraction 	
	Key Fluency Facts	Recognising/ subitising representations of 1	Numbers in order to 3	Recognising/ subitising representations of 2	Numbers in order to 4	Recognising/ subitising representations of 3	Numbers in order to 5
	Key Fluency Skills	Counting forwards 5 Number bonds within 3 1-1 correspondence Number formation – (0-3)		Counting forwards and bac 1-1 correspondence Number formation – (0-4)	kwaras to 5	Counting forwards and bac Number bonds within 5 1-1 correspondence More and less Number formation – (0-5)	kwards to 10





	Guidance Areas	A	utumn	Spi	ing	Sun	nmer	
	Aleus	Term 1	Term 2	Term 1	Term 2	Term 1	Term 2	
	Topic(s) (Application Topics)	Number and Place Value Geometry	Addition and Subtraction This is to be concrete, or be used rather number.		umbers to 10) (Please note: ictorial. Stem sentences to			
Reception	Procedural/ Conceptual Skills	different ways Reciting number more/less/fewer Describing 2D servitional langument Matching number Practical additection Sorting and careciteria Binary sort Introduction to	to 5 erns erns from to 5+ erns from to 5+ erns from to 5+ erns from to 5+ erns ers in order to 10 er hapes eral to quantity ern tegorising by own and given	Number sense to 1 Number bonds to Symmetrical patte Composition of nu Concept images t Multiple set sort Estimating Exploring mathem Sustained construct Practical addition Tally system Recording mather information/repres Sequencing event language/concep Practical addition	ons mbers to 10 o 10 official problems tion and subtraction natical entation s and exploring t of time	Number sense tow Recite beyond 20 Growing patterns Composition of nu Concept images t Halving/doubling Comparing sets Use and apply skill: number track Describing 3D shape Refined constructive Language to talk of capacity, position, Compare quantitive Solve practical proving a compared to the capacity of th	mbers to 15 o 15 o 15 s on a number line and a ce on about size, weight, distance, time es and objects oblems and describe patterns stics of everyday objects se mathematical language and compare ties and position	





	Guidance Areas	Au	tumn	Sp	ring	Summer	
		Term 1	Term 2	Term 1	Term 2	Term 1	Term 2
				<u>'</u>		Even/odd numbers	
	Key Fluency Facts	Number names in order to 5.	Numbers in order to 10.	Days of the week.	Number bonds to make 5.	Number bonds to make 10.	Count forwards in steps of 10.
	Key Fluency Skills	Skills Number bonds within 5 (part whole models/ tens frames) 1-1 correspondence Number formation – (0-5) Autumn 2 One more and One less ic(s) plication ics) Number and Place Value (Counting, Reading and Writing, More than, Less than) Measurement Describe length, height, mass, capacity, volume.		Doubling, Halving and Sharing Number bonds within 10 (part whole models/ tens frames) 1-1 correspondence One more and One less Number formation – (0-10) Properties of Shape Add and Subtract (to 20) Measurement Compare length, height, mass, capacity, volume. Coins and notes		Counting forwards and backwards Doubling, Halving and Sharing Number bonds within 10 1-1 correspondence One more and One less Counting in 2s and 10s 10 more and 10 less Number formation — (0-20)	
	Topic(s) (Application Topics)					Multiplication and Division Fractions Geometry Position (turns) Measurement Time	
Year 1	Procedural/ Conceptual Skills	ceptual backwards, beginning with 0 or 1, or from any		 Recognise and name common 2-D and 3-D shapes, including: 2-D shapes [for example, rectangles (including squares), circles and triangles] 3-D shapes [for example, cuboids (including cubes), pyramids and spheres]. Read, write and interpret mathematical statements involving addition (+), subtraction (-) and equals (=) signs Represent and use number bonds and related subtraction facts within 20 Add and subtract one-digit and two-digit numbers to 20, including zero 		 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. Recognise, find and name a half as one of two equal parts of an object, shape or quantity Recognise, find and name a quarter as one of four equal parts of an object, shape or quantity. 	





	Guidance Areas	Autumn		Sp	oring	Summer	
	711000	Term 1	Term 2	Term 1	Term 2	Term 1	Term 2
			,	subtraction, using con-	ms that involve addition and crete objects and pictorial nissing number problems		
	Key Fluency Facts	Number bonds for each number to 6	Count forward and backward in steps of 2, 5 and 10	Doubles and halves of numbers to 10.	Number bonds to 10	Name and number of days of the week, months of the year and seasons.	Number bonds for each number to 10
	Key Fluency Skills	Fluency Counting forwards and backwards up to 20 Counting in 10s Doubling and halving Partitioning numbers Recalling 10 times table facts		Counting forwards and backwards up to 50 Counting in 10s and 5s Doubling and halving Partitioning numbers Identifying one more, Identifying one less Recalling 10 and 5 times tables Mentally adding and subtracting		Counting forwards and backwards up to 100 Counting in 10s, 5s and 2s Doubling and halving Partitioning numbers Identifying one more, Identifying one less Recalling 2, 5, 10 times tables Mentally adding and subtracting Comparing numbers (<, > or =) Ordering numbers	
	Topic(s) (Application Topics)			Money Multiplication and division Statistics		Time Fractions Geometry	
Year 2	Skills	any number, forward an recognise the place valuation digit number (10s, 1s) identify, represent and edifferent representations compare and order numes, > and = signs	ue of each digit in a two-	recognise and use symbols (p); combine amounts to m find different combinations same amounts of money solve simple problems in a paddition and subtraction or including giving change count in steps of 2, 3, and 5 number, forward and back	of coins that equal the oractical context involving f money of the same unit, of from 0, and in 10s from any	compare and sequence inf tell and write the time to five past/to the hour and draw t to show these times know the number of minute number of hours in a day recognise, find, name and v and 3/4 of a length, shape, write simple fractions, for ex- recognise the equivalence	e minutes, including quarter the hands on a clock face s in an hour and the write fractions 1/3, 1/4, 2/4 set of objects or quantity ample 1/2 of 6 = 3 and





Guidance Areas	use place value and not solve problems with ad using concrete objects representations, includi quantities and measure applying their increasin written methods recall and use addition fluently, and derive and add and subtract number pictorial representation a two-digit number and a two-digit numbers adding 3 one-digit num show that addition of 2 order (commutative) a from another cannot recognise and use the addition and subtractic calculations and solve compare and order ler and record the results using the solve and record the record the results using the solve and record the results using the solve and record the	Autumn	Sp	pring	Sur	nmer
Aleds	Term 1	Term 2	Term 1	Term 2	Term 1	Term 2
	solve problems with a using concrete object representations, including quantities and measured applying their increase written methods. recall and use additionally, and derive and and subtract nupictorial representation at two-digit number of a two-digit number o	ures sing knowledge of mental and on and subtraction facts to 20 and use related facts up to 100 ambers using concrete objects, ons, and mentally, including: and 1s and 10s numbers can be done in any 1 and subtraction of 1 number to the inverse relationship between action and use this to check are missing number problems to using >, < and = propriate standard units to	5 and 10 multiplication tab odd and even numbers calculate mathematical stand division within the multiplication (=) signs show that multiplication of any order (commutative) canother cannot solve problems involving musing materials, arrays, repemethods, and multiplicatio including problems in contents.	atements for multiplication iplication tables and write on (×), division (÷) and equals 2 numbers can be done in and division of 1 number by ultiplication and division, eated addition, mental in and division facts, exts ple pictograms, tally charts, estions by counting the category and sorting the	identify and describe the p including the number of sid vertical line identify and describe the p including the number of ed identify 2-D shapes on the s example, a circle on a cylir pyramid] compare and sort commor everyday objects order and arrange combine objects in patterns and seq use mathematical vocabul direction and movement, ir straight line and distinguishi turn and in terms of right an three-quarter turns (clockwi	roperties of 3-D shapes, lges, vertices and faces surface of 3-D shapes, [for nder and a triangle on a n 2-D and 3-D shapes and ations of mathematical uences ary to describe position, including movement in a ng between rotation as a ngles for quarter, half and





	Guidance Areas	A	utumn	Sp	ring	Sun	nmer
		Term 1	Term 2	Term 1	Term 2	Term 1	Term 2
	Key Fluency Facts	Number bonds to 20.	Multiplication and division facts for the 10 times table.	Doubles and halves of numbers to 20.	Multiplication and division facts for the 5 times table.	Addition and subtraction facts for multiples of 10 to 100	Multiplication and division facts for the 2 times table
	Key Fluency Skills	Counting forwards and backwards Counting in 10s Doubling and halving Partitioning numbers Recall of 10 times table facts		Counting forwards and backwards Counting in 10s and 5s Doubling and halving Partitioning numbers Recognising One more, Recognising One less Recall of 10 and 5 times tables Mental addition and subtraction		Counting forwards and backwards Counting in 10s, 5s and 2s Doubling and halving Partitioning numbers Recognising One more, Recognising One less Recall of 2, 5, 10 times tables Mental addition and subtraction Compare numbers (<, > or =) Order number	
	Topic(s) (Application Topics)	Number and Place Value Addition and Subtraction		Multiplication and Division Time		Fractions Geometry	
		Measures (measure, cor	mpare, add, subtract)	Money (add and subtract) Statistics		ŕ	
	Skills	count from 0 in multiples or 100 more or less than	S	recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables		Count up and down in tentl arise from dividing an object dividing one-digit numbers of	t into 10 equal parts and in
Year 3		number (100s, 10s, 1s) compare and order num	recognise the place value of each digit in a 3-digit number (100s, 10s, 1s) compare and order numbers up to 1,000 identify, represent and estimate numbers using		write and calculate 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		actions of a discrete set of on-unit fractions with small
	different representations read and write numbers up to 1,000 in in words		· ·	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		Recognise and use fractions as numbers: unit fraction and non-unit fractions with small denominators Recognise and show, using diagrams, equivalent fractions with small denominators	
		solve number problems of involving these ideas add and subtract numb	ers mentally, including:	objects tell and write the time from including using Roman num	an analogue clock,	Add and subtract fractions within one whole	
		a three-digit number and a three-digit number and		hour and 24-hour clocks		Compare and order unit fra the same denominators	ctions, and fractions with





Guidance Areas		Autumn	Sp	ring	Summer	
Aleus	Term 1	Term 2	Term 1	Term 2	Term 1	Term 2
	formal written method	nd 100s bers with up to 3 digits, using s of columnar addition and	o'clock, am/pm, morning,	and compare time in terms ours; use vocabulary such as	Solve problems that involve measure the perimeter of si	
		estimate the answer to a calculation and use niverse operations to check answers olve problems, including missing number problems, ising number facts, place value, and more complex addition and subtraction neasure, compare, add and subtract: lengths m/cm/mm); mass (kg/g); volume/capacity (l/ml)		know the number of seconds in a minute and the number of days in each month, year and leap year compare durations of events [for example, to calculate the time taken by particular events or tasks] add and subtract amounts of money to give change, using both £ and p in practical contexts		e 3-D shapes using mode apes in different orientat
	using number facts, pl					erty of shape or a
						nise that 2 right angles m uarters of a turn and 4 a ether angles are greater
	interpret and present data using bar charts, pictograms and tables		and tables	using bar charts, pictograms	or less than a right angle identify horizontal and vertical lines and pairs of perpendicular and parallel lines	
			solve one-step and two-step questions [for example 'How many more?' and 'How many fewer?'] using information presented in scaled bar charts and pictograms and tables			
Key Fluency Facts	Number bonds for all numbers to 20.	Multiplication and division facts for the 3 times table.	Multiplication and division facts for the 4 times table	Multiplication and division facts for the 8 times table.	Recall facts about durations of time.	Doubles and halves o All numbers to 20 All multiples of 10 to 5 All multiples of 100 to
Key Fluency Skills	Make representations of numbers Counting in multiples 2, 5, 10, 4 Find more and	Make representations of numbers Counting in multiples 2, 5, 10, 4, 8, 3 Find more and less	Make representations of numbers Counting in multiples 2, 5, 10, 4, 8, 3 Find more and less	Key Fluency Skills	Make representations of numbers Counting in multiples 2, 5, 10, 4 Find more and less	Make representations numbers Counting in multiples 2, 5, 10, 4, 8, 3 Findmore and
	less than a number Order numbers Read and write numbers in numerals	than a number Order numbers Read and write numbers in numerals and words	than a number Order numbers Read and write numbers in numerals and words		than a number Order numbers Read and write numbers in numerals and words	than a number Order numbers Read and write numb in numerals and word
	and words Partition numbers Mental addition and	Partition numbers Mental addition and subtraction	Partition of numbers Mental addition and subtraction		Partition numbers Mental addition and subtraction	Partition numbers Mental addition and subtraction
	subtraction	Roman numerals	Roman numerals			Roman numerals





	Guidance Areas		Autumn	\$p	ring	Sun	nmer
	7	Term 1	Term 2	Term 1	Term 2	Term 1	Term 2
			Comparing numbers (<, > or =) Rounding	Comparing numbers (<, > or =) Rounding			Comparing numbers (<, > or =) Rounding
	Topic(s) (Application Topics)	Number and Place Val Addition and Subtraction Statistics	on	Multiplication and Division Fractions		Geometry Time Measures	
Year 4	Skills	numbers recognise the place voidigit number (1,000s, 1) order and compare nuidentify, represent and different representation round any number to the solve number and provided in the above and winumbers read Roman numerals	than a given number ugh 0 to include negative alue of each digit in a four- 00s, 10s, and 1s) umbers beyond 1,000 l estimate numbers using ns the nearest 10, 100 or 1,000 ctical problems that involve vith increasingly large positive to 100 (I to C) and know that I system changed to include	recall multiplication and divides up to 12 × 12 use place value, known an and divide mentally, includ dividing by 1; multiplying to recognise and use factor pmental calculations multiply two-digit and three digit number using formal wasolve problems involving multipluding using the distribution numbers by 1 digit, integer correspondence problems connected to mobjects Recognise and show, using common equivalent fraction.	d derived facts to multiply ing: multiplying by 0 and 1; gether 3 numbers airs and commutativity in digit numbers by a one-ritten layout altiplying and adding, we law to multiply two-digit scaling problems and harder such as n objects are diagrams, families of ns	compare and classify geom quadrilaterals and triangles, and sizes identify acute and obtuse corder angles up to 2 right are identify lines of symmetry in different orientations complete a simple symmetry specific line of symmetry describe positions on a 2-Defirst quadrant describe movements between a given unit to the left/rig plot specified points and dragiven polygon read, write and convert time	angles and compare and ngles by size 2-D shapes presented in ric figure with respect to a grid as coordinates in the een positions as translations that and up/down aw sides to complete a
		the formal written met and subtraction where	rse operations to check	hundredths arise when dividing tenths by 10. Solve problems involving incalculate quantities, and from the control of the con	ding an object by a 100 and creasingly harder fractions to	digital 12- and 24-hour clock solve problems involving cominutes, minutes to seconds days	nverting from hours to





Guidance Areas	A	utumn	Spi	ing	Sun	nmer
Aicus	Term 1	Term 2	Term 1	Term 2	Term 1	Term 2
		raction two-step problems in hoperations and methods		Add and subtract fractions with the same denominator		perimeter of a rectilinear centimetres and metres
		screte and continuous data nical methods, including bar	Recognise and write decim- number of tenths or hundred		Find the area of rectilinears estimate, compare and cal	
	charts and time graphs	ilical memoas, including pai	Recognise and write decimal equivalents to 1/4; 1/2; 3/4		including money in pounds	
	using information presented in bar charts, pictograms, tables and other graphs Rowl Co		Find the effect of dividing a by 10 and 100, identifying the answer as ones, tenths and	e value of the digits in the		
			Round decimals with 1 deci whole number	mal place to the nearest		
			Compare numbers with the same number of decimal places up to 2 decimal places			
			Solve simple measure and money problems involving fractions and decimals to 2 decimal places.			
Key Fluency Facts	Number bonds to 100.	Multiplication and division facts for the 6 times table.	Multiply and divide single- digit numbers by 10 and 100.	Multiplication and division facts for the 9 , 11 and 7 times tables.	Recognise decimal equivalents of fractions. Convert between the 12 hour and 24 hour clock.	Doubles and halves of All numbers to 50 All multiples of 5 to 1000 All multiples of 50 to 500
Key Fluency Skills	Make representations of numbers Counting in multiples 3, 6, 9, 25, 100 and 1000 Find more and less than a number Order numbers Read and write numbers in numerals and words Partition numbers		Make representations of numbers Counting in multiples 3, 6, 9, 7, 11, 25, 100, 1000 Find more and less than a number Order numbers Read and write numbers in numerals and words		Make representations of numbers Counting in multiples 3, 6, 7, 9, 11, 12, 25, 100 and 1000 Find more and less than a number Order numbers Read and write numbers in numerals and words	
	Mental addition and sub	otraction	Partition numbers Mental addition and subtraction Convert to Roman numerals Comparing numbers (<, > or =) Partition of numbers Mental addition and subtraction Convert to Roman numerals Comparing numbers (<, > or =) Rounding		;	





	Guidance Areas	Term 1 Number and Place Val Addition and Subtraction Statistics read, write, order and a 1,000,000 and determine count forwards or back 10 for any given number interpret negative num forwards and backwar whole numbers, including round any number up a subtraction of the subtr	utumn	Sı	oring	Sum	nmer	
		Term 1	Term 2	Term 1	Term 2	Term 1	Term 2	
			1		1	Counting through negative	numbers	
	Topic(s) (Application	Number and Place Valu	e	Multiplication and Division		Fractions		
	Topics)	Addition and Subtraction	n	Fractions		Geometry		
		Statistics				Measures		
						Time		
	Skills	read, write, order and compare numbers to at least 1,000,000 and determine the value of each digit			ors, including finding all factor mmon factors of 2 numbers	identify 3-D shapes, includin from 2-D representations		
		count forwards or back 10 for any given number	wards in steps of powers of r up to 1,000,000	know and use the vocabul factors and composite (no	ary of prime numbers, prime n-prime) numbers	read and write decimal numbers as fractions [for example, 0.71 = 71/100]		
			ds with positive and negative	establish whether a number recall prime numbers up to		recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents		
				multiply numbers up to 4 d	gits by a one- or two-digit	read, write, order and comp decimal places	pare numbers with up to 3	
Year 5		100, 1,000, 10,000 and 10		number using a formal writ multiplication for two-digit		round decimals with 2 decimal places to the neare whole number and to 1 decimal place		
		solve number problems involve all of the above	and practical problems that	multiply and divide numbe known facts	rs mentally, drawing upon	solve problems involving nui	mber up to 3 decimal	
		read Roman numerals to years written in Roman r	o 1,000 (M) and recognise numerals	divide numbers up to 4 dig using the formal written me interpret remainders appro	ethod of short division and	solve problems involving number up to 3 decimal places		
		add and subtract whole digits, including using for (columnar addition and		multiply and divide whole i decimals by 10, 100 and 1,	numbers and those involving 000	per cent relates to 'number		
		add and subtract numb increasingly large numb		recognise and use square and the notation for square	numbers and cube numbers, ed (²) and cubed (³)	percentages as a fraction was a decimal fraction	vitn denominator 100, and	
			answers to calculations and xt of a problem, levels of	solve problems involving m including using their knowle multiples, squares and cub	edge of factors and	decimal equivalents of 1/2,	re knowing percentage and 1,1/4,1/5,2/5,4/5 and minator of a multiple of 10 or	





Guida Are		Autumn		Spring		Summer
Ale	Term 1	Term 2	Term 1	Term 2	Term 1	Term 2
	in contexts, dec methods to use solve compariso using informatio	on, sum and difference problems in presented in a line graph and interpret information in tables,	multiplication and including understal solve problems involving scaling be involving simple rate compare and order all multiples of the identify, name and fraction, represent hundredths recognise mixed not convert from one fraction and the matical state example, 2/5 + 4/5 and denominators number multiply proper fraction numbers, supporter recognise the percent relates to	er fractions whose denominators a same number I write equivalent fractions of a gived visually, including tenths and umbers and improper fractions anorm to the other and write ements > 1 as a mixed number [fore = 6/5 = 1 1/5] Fractions with the same denomination that are multiples of the same and diagrams Cent symbol (%) and understand the fraction with denominator 100, and write as the same and write and writ	from 2-D represented know angles are macompare acute, obtained draw given angles, identify: angles at a point angles at a point on 180°) other multiples of 90 use the properties of facts and find missing draw distinguish between based on reasoning identify, describe and following a reflection appropriate languation of changed tend to the convert between a sinches, pounds of the convert between metric understand and use the convert between the convert betw	easured in degrees: estimate and obuse and reflex angles and measure them in degrees (°) and 1 whole turn (total 360°) an a straight line and half a turn (total 00° of rectangles to deduce related anglengths and angles are regular and irregular polygons and angles and represent the position of a shape on or translation, using the age, and know that the shape has different units of metric measure the approximate equivalences its and common imperial units such and pints ulate the perimeter of composite and centimetres and metres appare the area of rectangles including using standard units, and composite of centimetres and square metres (m2) and of irregular shapes





Guidance Areas		Autumn	Sp	ring	Sun	nmer
Aleus	Term 1	Term 2	Term 1	Term 2	Term 1	Term 2
					use all four operations to sol measure using decimal note solve problems involving co time	ation including scaling
Key Fluency Facts	Decimal number bonds to 1 and 10.	Multiplication and division facts for all times tables up to 12 × 12 Recall square numbers up to 12 ² and their square roots.	Recall metric conversions.	Identify prime numbers up to 20.	Doubles and halves of All numbers to 100 All multiples of 10 to 10,000 All multiples of 100 to 10,000	Find factor pairs of a number. Tests of divisibility for 5, 9 and 10.
Key Fluency Skills	Consolidate Place value Recap number bonds Recap double and halving Recite multiplication and division facts Identify and recap factors Convert between different measures rounding Recite squared numbers, fractions and decimals Multiply by 10, 100, 1000 Find fraction/percentage of an amount Recap number lines Solve calculations involving BODMAS Identify prime numbers Revise angles		Consolidate Place value Recap number bonds Recap double and halving Recite multiplication and di Identify and recap factors Convert between different rounding Recite squared numbers, fro Multiply by 10, 100, 1000 Find fraction/percentage of Recap number lines Solve calculations involving Identify prime numbers Revise angles Calculate area and perime Revisit previously taught key	measures actions and decimals f an amount BODMAS	Consolidate Place value Recap number bonds Recap double and halving Recite multiplication and di Identify and recap factors Convert between different r rounding Recite squared numbers, fro Multiply by 10, 100, 1000 Find fraction/percentage or Recap number lines Solve calculations involving Identify prime numbers Revise angles Calculate area and perime	measures actions and decimals f an amount BODMAS
Topic(s) (Application Topics)	Revisit previously taught key fluency skills Number and Place Value Four Operations		Algebra Fractions		Statistics Geometry	
Skills		compare numbers up to nine the value of each digit	Measurement use simple formulae		Ratio and Proportion interpret and construct pie use these to solve problems	





Guidance Areas	Autumn			Spring		Summer	
Areas	Term 1	Term 2	Term 1	Term 2	Term 1	Term 2	
	round any whole number to a required degree of accuracy use negative numbers in context, and calculate intervals across 0 solve number and practical problems that involve all of the above 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, and interpret remainders as whole number remainders, fractions, or by rounding, as appropriate for the context		generate and describe linear number sequences express missing number problems algebraically		describe positions (describe positions on the full coordinate grid (all 4 quadrants)	
			unknowns	find pairs of numbers that satisfy an equation with 2 unknowns enumerate possibilities of combinations of 2 variables use common factors to simplify fractions; use common multiples to express fractions in the same denomination compare and order fractions, including fractions >1 add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions multiply simple pairs of proper fractions, writing the answer in its simplest form [for example, $1/4 \times 1/2 = 1/8$] divide proper fractions by whole numbers [for example, $1/3 \div 2 = 1/6$]		draw and translate simple shapes on the coordinate plane, and reflect them in the axes	
			use common fact			solve problems involving the relative sizes of 2 quantities where missing values can be found by using integer multiplication and division facts	
			add and subtract			solve problems involving the calculation of percentages [for example, of measures and such as 15% of 360] and the use of percentages for comparison	
			answer in its simpl			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	
	using the formal where appropric	divide numbers up to 4 digits by a two-digit number using the formal written method of short division where appropriate, interpreting remainders according to the context		on with division and calculate equivalents [for example, 0.375] for or example, 3/8]	use, read, write an converting measur	nd convert between standard units, rements of length, mass, volume and	
	perform mental calculations, including with mixed operations and large numbers		identify the value of each digit in numbers given to 3 decimal places and multiply and divide numbers by 10, 100 and 1,000 giving answers up to 3 decimal places multiply one-digit numbers with up to 2 decimal places		0, vice versa, using de places	time from a smaller unit of measure to a larger unit, and vice versa, using decimal notation to up to 3 decimal places	
	prime numbers	n factors, common multiples and	by whole numbers use written division methods in cases where the answer up to 2 deci		solve problems invo	olving the calculation and of measure, using decimal notation aces where appropriate	
	use their knowledge of the order of operations to carry out calculations involving the 4 operations solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why solve problems involving addition, subtraction, multiplication and division		solve problems w	solve problems which require answers to be rounded to specified degrees of accuracy		recognise that shapes with the same areas can have different perimeters and vice versa	
				uivalences between simple fraction rcentages, including in different	recognise when it is possible to use formulae for area and volume of shapes		





Guidance Areas	Au	ıtumn	Spring		Summer	
	Term 1	Term 2	Term 1	Term 2	Term 1	Term 2
	use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy calculate and interpret the mean as an average.		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 3 decimal places solve problems involving the calculation and conversion of units of measure, using decimal notation up to 3 decimal places where appropriate		calculate the area of parallelograms and triangles calculate, estimate and compare volume of cubes and cuboids using standard units, including cubic centimetres (cm3) and cubic metres (m3), and extending to other units convert between miles and kilometres	
Key Fluency Facts	Use times table facts to multiply and divide decimals	Identify common factors of a pair of numbers.	Convert between decimals, fractions and percentages.	Identify prime numbers up to 50.	Doubles and halves of 2 digit decimals.	Tests of divisibility for 4 and 6.
Key Fluency Skills	Consolidate Place value Recap number bonds Recap double and halving Recite multiplication and division facts Identify and recap factors Convert between different measures rounding Recite squared numbers, fractions and decimals Multiply by 10, 100, 1000 Find fraction/percentage of an amount Recap number lines Solve calculations involving BODMAS Identify prime numbers Revise angles Calculate area and perimeter		Consolidate Place value Recap number bonds Recap double and halving Recite multiplication and division facts Identify and recap factors Convert between different measures rounding Recite squared numbers, fractions and decimals Multiply by 10, 100, 1000 Find fraction/percentage of an amount Recap number lines Solve calculations involving BODMAS Identify prime numbers Revise angles Calculate area and perimeter		Consolidate Place value Recap number bonds Recap double and halving Recite multiplication and division facts Identify and recap factors Convert between different measures rounding Recite squared numbers, fractions and decimals Multiply by 10, 100, 1000 Find fraction/percentage of an amount Recap number lines Solve calculations involving BODMAS Identify prime numbers Revise angles Calculate area and perimeter Revisit previously taught key fluency skills	

Please note: some of the topics may carry over into the next term.