

Mathematics year group overview

'Together we unlock potential and learn for life'

		Mathe	matics										
	O-3 year olds (Pre -Nursery) Typically 0-12 months Typically 1 to 2 years Typically 2-3 years												
Typically 0	-12 months	Typically 1	to 2 years	Typically	2-3 years								
Topic 1	Topic 2	Topic 3	Topic 1	Topic 2	Topic 3								
and cups.	of spaces.	group of up to t Counting-like	behaviour, such as pointing or saying n sequence.	numbers Compare amoun or 'same'. Count in everyd sometimes skip 5.'	nger rhymes with ts, saying 'lots', 'more lay contexts, ping numbers - '1-2-3 s and arrange things								

	Mathematics	
	3- 4 year olds (Nursery)	
Autumn -	Spring -	Summer -
 Show 'finger numbers' up to 5. Talk about and identifies the patterns around them. For example: stripes on clothes, designs on rugs and wallpaper. Use informal language like 'pointy', 'spotty', 'blobs' etc Understand position through words alone - for example, "The bag is under the table," - with no pointing. Select shapes appropriately: flat surfaces for building, a triangular prism for a roof etc. Name and recognise some 2D shapes (added to support Spring term not an official statement). 	 say one number for each item in order: 1,2,3,4,5. Know that the last number reached when counting a small set of objects tells you how many there are in total ('cardinal principle'). Link numerals and amounts: for example, showing the right number of objects to match the numeral, up to 5 Experiment with their own symbols and marks as well as numerals. Discuss routes and locations, using words like 'in front of' and 'behind'. Talk about and explore 2D using informal and mathematical language: 'sides', 'corners'; 'straight', 'flat', 'round'. Extend and create ABAB patterns - stick, leaf, stick, leaf. 	 Recite numbers past 5 Combine shapes to make new ones - an arch, a bigger triangle etc. Talk about and explore 3D using informal and using informal and mathematical language: 'sides', 'corners'; 'straight', 'flat', 'round'. Notice and correct an error in a repeating pattern Begin to describe a sequence of events, real or fictional, using words such as 'first', 'then'. Solve real world mathematical problems with numbers up to 5. Compare quantities using language: 'more than', 'fewer than' Describe a familiar route Fast recognition of up to 3 objects, without having to count them individually ('subitising'). Make comparisons between objects relating to size, length, weight and capacity

	Reception Year					
Autumn -	Spring -	Summer -				
Counts objects, actions and sounds. Link numeral with its cardinal number value. Subitise Select, rotate and manipulate shapes in order to develop spatial reasoning skills Compare lengths, weight and capacity Continue, copy and compare patterns	 Compare numbers Compare quantities up to 10 in different contexts, recognising one quantity is greater than, less than or the same as another. (ELG) Count beyond ten Understand the 'one more than/ one less than' relationship between consecutive numbers Explore composition on 10 Atomically recall number bonds for numbers to 10 Compose and decompose shapes so that children recognise a shape can have other shapes within it, just as numbers can. Subitise up to 5. 	 Verbally count beyond 20, recognising the pattern of the counting system. Have a deep understanding of numbers to 10, including the composition of each number Automatically recall (without reference to rhymes, counting or other aids) number bonds up to 5 (including subtraction facts) and some number bonds up to 10, including double facts. Explore and represent patterns within numbers up to 10, including evens, odds, double facts and how quantities can be distributed equally. 				

Number ELG

Have a deep understanding of number to 10, including the composition of each number.

Subitise (recognise quantities without counting) up to 5.
Automatically recall (without reference to rhymes, counting or other aids) number bonds up to 5 (including subtraction facts) and some number bonds to 10, including double facts.

Numerical Patterns ELG

Verbally count beyond 20, recognising the pattern of the counting system.

Compare quantities up to 10 in different contexts, recognising when one quantity is greater than, less than or the same as the other quantity.

Explore and represent patterns within numbers up to 10, including evens and odds, double facts and how quantities can be distributed equally.



Reception Guidance



#MathsEveryoneCan

100	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12		
Autumn		Place Value - Numbers to 5 Addition and Subtraction - Sorting Place Value - Comparing groups Addition and Subtraction - Change within 5 Measurement - Time												
Spring		Addition and Subtraction - Numbers to 5 Place Value - Numbers to 10 Addition and Subtraction - Addition to 10 Geometry - Shape and space												
Summer	Geometry - Exploring patterns Addition and Subtraction - Count on and back Place Value - Numbers to 20 Multiplication and Division - Numerical patterns Measurement - Measure													

Reception - Notes and guidance



Autumn Progression

Number and Place Value	Numbers to 5	\rightarrow	One, two, three
		\rightarrow	Four
		\rightarrow	Five
Addition and Subtraction	Sorting	-	Sorting into groups
Number and Place Value	Comparing groups	-	Comparing quantities of identical objects
			Comparing quantities of non-identical objects
Addition and Subtraction	Change within 5	-	One more
		\rightarrow	One less
Measurement	Time	-	My day

Reception - Notes and guidance



Spring Progression

Addition and Subtraction	Numbers to 5] →	Number bonds to 5
Number and Place Value	Numbers to 10		Counting to 6, 7 and 8
		\rightarrow	Counting to 9 and 10
		\rightarrow	Comparing groups up to 10
Addition and Subtraction	Addition to 10] →	Combining two groups to find the whole Number bonds to 10 – ten frame
		-	Number bonds to 10 – part-whole model
Geometry	Shape and space	-	Spatial awareness
			3-D shapes
			2-D shapes

Reception - Notes and guidance



Summer Progression

Geometry	Exploring patterns	Making simple patterns Exploring more complex patterns
Addition and Subtraction	Count on and back	Adding by counting on Taking away by counting back
Number and Place Valu	e Numbers to 20	→ Counting to 20
Multiplication and Division	Numerical patterns	 → Doubling → Halving and sharing → Odds and evens
Measurement	Measure	 → Length, height and distance → Weight → Capacity © White Rose Maths



Small Steps Guidance and Examples



Year 1 - Yearly Overview

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	
Autumn	1		Place Valu in 10)	e	Numbe	r: Addition (with	n and Sub in 10)	traction	Geometry: Shape	Va	Number: Place Value (within 20)		
Spring	Numbe		n and Sub in 20)	traction	(Multip	per: Place (within 50 ples of 2, 5 be include) and 10	Lengt	rement: h and ight	Measurement: Weight and Volume		Consolidation	
Summer	Number: Multiplication and Division (Reinforce multiples of 2, 5 and 10 to be included) Number: Fractions				Geometry: position and direction	Numbe Va (withi	r: Place lue n 100)	Measurement : money	Time		Consolidation		

Year 1 - Autumn Term

Week 1 Week 2 Week 3 Week 4	Week 5 Week 6 Week 7 Week 8	Week 9	Week 10 Week 11	Week 12
Number: Place Value Count to ten, forwards and backwards, beginning with 0 or 1, or from any given number. Count, read and write numbers to 10 in numerals and words. Given a number, identify one more or one less. Identify and represent numbers using objects and pictorial representations including the number line, and use the language of: equal to, more than, less than (fewer), most, least.	Number: Addition and Subtraction Represent and use number bonds and related subtraction facts within 10 Read, write and interpret mathematical statements involving addition (+), subtraction (-) and equals (=) signs. Add and subtract one digit numbers to 10, including zero. Solve one step problems that involve addition and subtraction, using concrete objects and pictorial representations and missing number problems.	Geometry: Shape Recognise and name common 2-D shapes, including: (for example, rectangles (including squares), circles and triangles) Recognise and name common 3-D shapes, including: (for example, cuboids (including cubes), pyramids and spheres.)	Number: Place Value Count to twenty, forwards and backwards, beginning with 0 or 1, from any given number. Count, read and write numbers to 20 in numerals and words. Given a number, identify one more or one less. Identify and represent numbers using objects and pictorial representations including the number line, and use the language of: equal to, more than, less than (fewer), most, least.	Consolidation

Year 1 - Spring Term

Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Represent and facts within 20 Read, write an addition (+), su Add and subtra including zero. Solve one step subtraction, us	d interpret math obtraction (-) and act one-digit and	ematical statem equals (=) signs two-digit numb wolve addition a ects and pictoria	ents involving i. ers to 20, and	beginning with Count, read an numerals. Given a number Identify and re and pictorial re number line, a to, more than,	rwards and back o or 1, or from a od write numbers er, identify one man present numbers epresentations in nd use the langual less than (fewer ples of twos, five	ny number. to 50 in nore or one less. s using objects cluding the age of: equal), most, least.	Height Measure an record lengths. Compare, d solve practifor: lengths [for example]	lescribe and ical problems and heights le, long/short, rter, tall/short,	Measurement and Volume Measure and record mass/capacity and Compare, desolve practice for mass/weexample, heavier than capacity olume [for full/empty, nless than, hai quarter]	begin to (weight, volume. scribe and al problems ight: [for any/light, , lighter ty and example, nore than,	Consolidation

Year 1 - Summer Term

Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Count in multi Solve one step multiplication answer using o	iplication and Div ples of twos, five problems involv and division, by o oncrete objects, is and arrays with	s and tens. ing calculating the pictorial	Number: Fractic Recognise, find half as one of to of an object, sh quantity. Recognise, find quarter as one of parts of an object quantity. Compare, descriptor des	and name a wo equal parts ape or and name a of four equal act, shape or ribe and solve ams for: ghts (for short, tall/short, ribe and solve ams for: or example, avier than, spacity and imple, e than, less	Geometry: position and direction Describe position, direction and movement, including whole, half, quarter and three quarter turns	Number: Place Count to and a forwards and i beginning with from any giver Count, read an numbers to 10 numerals. Given a numbo one more and Identify and re numbers using pictorial repre including the r and use the lai equal to, more than, most, lea	across 100, backwards, h 0 or 1, or n number. and write 00 in er, identify one less. epresent g objects and sentations number line, nguage of: e than, less	Measuremen t: Money Recognise and know the value of different denominatio ns of coins and notes.	language [fo before and a first, today, y tomorrow, n afternoon an Recognise ar language rela dates, includ	ents in al order using r example, fter, next, vesterday, norning, and evening. and use ating to ling days of eeks, months to the hour the	Consolidation



Small Steps Guidance and Examples



Year 2 - Yearly Overview

	Week1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Autumn	ı	Number: Place valu		Nu	mber: Ad	dition and	l Subtract		rement: oney	Number: Multiplication and Division		
Spring	Multip	nber: lication ivision	Stati	stics	Geometry: Properties of Shape					tions	Measurement: length and height	Consolidation
Summer	Position and direction		Prob solving effici meth	g and ent	Measuren	nent: Time	Measurement: Mass Capacity and Temperature			Investi	gations	

Year 2 - Autumn Term

Week 1 Week 2 Week 3	Week 4 Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Read and write numbers to at least 100 in numerals and in words. Recognise the place value of each digit in a two digit number (tens, ones) Identify, represent and estimate numbers using different representations including the number line. Compare and order numbers from 0 up to 100; use <, > and = signs. Use place value and number facts to solve problems. Count in steps of 2, 3 and 5 from 0, and in tens from any number, forward and backward.	Number – Addition and Subt Recall and use addition and suse related facts up to 100. Add and subtract numbers use representations, and mentall two-digit number and tens; the numbers. Show that the addition of two (commutative) and subtraction is solve problems with addition pictorial representations, incommended and measures; applying their methods. Recognise and use the inverse subtraction and use this to comproblems.	ubtraction facts sing concrete obj y, including: a tw wo two-digit nur o numbers can b on of one numbe a and subtraction luding those invo- increasing know	jects, pictorial vo-digit numbe mbers; adding t ee done in any o er from another s: using concret plying numbers, wledge of menta	r and ones; a hree one-digit order cannot. e objects and quantities al and written	combine amo particular valu Find different	d use symbols) and pence (p); unts to make a ue. combinations equal the same toney. problems in a ext involving subtraction of same unit,	recognising od numbers. Calculate math statements for and division wimultiplication; them using the (x), division (+) sign. Solve problems multiplication; using materials repeated addit methods and n division facts, i problems in co	multiplication cts for the 2, 5 ables, including d and even multiplication thin the tables and write multiplication and equals (=) s involving and division, in arrays, ion, mental multiplication and ncluding ntexts. multiplication of an be done in mutative) and number by

Year 2 - Spring Term

Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
and division fa and 10 times to recognising or numbers. Calculate mati- statements for and division we multiplication write them us multiplication and equals (=) Solve problem multiplication using material repeated addi- methods and and division fa problems in co-	e multiplication acts for the 2, 5 tables, including dd and even the stables, including dd and even the stables and ing the (×), division (+) isigns. In involving and division, ls, arrays, tition, mental multiplication acts, including ontexts. In multiplication acts are stables and ecommutative) fone number	Statistics Interpret and simple pictog charts, block simple tables. Ask and answ questions by number of ob category and categories by Ask and answ about totallin comparing ca	rams, tally diagrams and er simple counting the jects in each sorting the quantity.	Identify and de shapes, includi line symmetry Identify and de shapes, includi vertices and fa Identify 2-D shi shapes, [for ex- and a triangle of	apes on the surfa ample, a circle o on a pyramid.] sort common 2-D	erties of 2-D of sides and erties of 3-D of edges, ace of 3-D of a cylinder	$\frac{1}{4}$, $\frac{2}{4}$ and $\frac{3}{4}$ of a quantity. Write simple f	tions d, name and writength, shape, see ractions for example the equivalence	et of objects or $\frac{3}{2}$ of $6 = 3$	Measurement: length and height Choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm); mass (kg/g); temperature ("C); capacity (litres/ml) to the nearest appropriate unit, using rulers, scales, thermometers and measuring vessels Compare and order lengths, mass, volume/capacit y and record the results using >, < and =	Consolidation

Year 2 - Summer Term

Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
position, dire including mod distinguishing and in terms half and three and anti-clock Order and arr	atical vocabulary ction and move vement in a stra s between rotati of right angles for e-quarter turns	ment ight line and ion as a turn or quarter, (clockwise ons of	Problem solvi Efficient meth	-	Measurement Tell and write five minutes, quarter past, and draw the clock face to times. Know the numinutes in an the number of day. Compare and intervals of the state of t	e the time to including /to the hour e hands on a show these mber of hour and of hours in a	Choose and use units to estimate length/height mass (kg/g); to (litres/ml) to to using rulers, so measuring versions and compare and	order lengths,	standard re n (m/cm); C); capacity propriate unit, neters and		Investigations



Small Steps Guidance and Examples



Year 3 - Yearly Overview

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Autumn	Numb	er – Place	Value	Nui	mber – Ad	dition an	d Subtrac	tion	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	er – Multip nd Divisio		Consolidation
Spring		er - Multip nd Divisio		Measurement: Money	Stati	istics		ement: ler perimeter		17/5/7/5/07	ber - tions	Consolidation
Summer	Num	ber – frac	tions	M	easureme Time	nt:	Prope	netry – rties of apes	4604700	easureme s and Cap		Consolidation

Year 3 - Autumn Term

Week 1 Week 2 Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Number – Place Value Identify, represent and estimate numbers using different representations. Find 10 or 100 more or less than a given number Recognise the place value of each digit in a three-digit number (hundreds, tens, ones). Compare and order numbers up to 1000 Read and write numbers up to 1000 in numerals and in words. Solve number problems and practical problems involving these ideas. Count from 0 in multiples of 4, 8, 50 and 100	Add and subtrones; a three- Add and subtr methods of co Estimate the a answers.	digit number an ract numbers wi plumnar addition answer to a calcu	action entally, including, id tens; a three di th up to three dig n and subtraction ulation and use in sing number prolex addition and su	igit number and gits, using formal nverse operation blems, using num	hundreds. I written is to check	Count from 0 in Recall and use and 8 multiplication they know, inconumbers, using methods. Solve problems involving multiplication graphs and calculate and calculate and calculate and solve problems involving multiplication graphs.	tiplication and Di n multiples of 4, multiplication an ation tables. ulate mathemati and division usin luding for two-di mental and proj s, including missin plication and divi problems and co s are connected t	d division facts cal statements g the multiplic git numbers tin gressing to forn ng number proision, including rrespondence	for ation tables nes one-digit nal written olems, positive problems in

Year 3 - Spring Term

Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Recall and use for the 3, 4 and Write and calc for multiplication two-digit numl using mental a written metho Solve problem problems, invo division, include problems and	tiplication and dir multiplication and 8 multiplication ulate mathematii ion and division u tables they know bers times one-di nd progressing to ds. s, including missi living multiplicati ling positive integ correspondence is s are connected to	d division facts tables. cal statements using the , including for igit numbers, o formal ng number on and ger scaling problems in	Measuremen t-money Add and subtract amounts of money to give change, using both £ and p in practical contexts.	questions [for	and two-step example, 'How and 'How many information caled bar	Measure, comp (m/cm/mm); n (l/ml).	– length and per pare, add and su nass (kg/g); volu erimeter of simp	ubtract: lengths me/capacity	recognise that from dividing a 10 equal parts one-digit numb quantities by 1	down in tenths; tenths arise in object into and in dividing oers or 0 use fractions as fractions and ons with small I and write liscrete set of actions and ons with small stand ons with small	Consolidation

Year 3 - Summer Term

Week 1 Week 2 Week 3	Week 4 Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Number – fractions Recognise and show, using diagrams, equivalent fractions with small denominators. Compare and order unit fractions, and fractions with the same denominators. Add and subtract fractions with the same denominator within one whole [for example, $\frac{5}{7} + \frac{1}{7} = \frac{6}{7}$] Solve problems that involve all of the above.	Measurement – time Tell and write the time from a including using Roman nume and 12-hour and 24-hour cloud Estimate and read time with accuracy to the nearest minus. Record and compare time in minutes and hours. Use vocabulary such as o'cloud morning, afternoon, noon and Know the number of seconds the number of days in each in leap year. Compare durations of events calculate the time taken by p tasks].	rals from I to XII cks. increasing te. terms of seconds, ck, a.m./p.m., d midnight. in a minute and onth, year and	of shape or a d turn. Identify right a that two right a half-turn, three quarters of a to complete turn; whether angles than or less that Identify horizo lines and pairs perpendicular s lines.	les as a property lescription of a ngles, recognise angles make a e make three urn and four a identify s are greater an a right angle. Intal and vertical of and parallel les and make 3-modelling shapes in tations and	Measure, com	— mass and capa pare, add and su /mm); mass (kg/ city (I/ml).	ibtract:	Consolidation



Small Steps Guidance and Examples



Year 4 - Yearly Overview

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Autumn	1	Number –	Place Val	ue	7.6.2.3.3.3.3.3.3.3.3.3.3.3.3.3.3.3.3.3.3	er- Additi Subtractio		Measurement - Length and Perimeter	Numbe	er- Multip nd Divisio		Consolidation
Spring	PARTY A THE PARTY AND ADDRESS.	er- Multip nd Divisio		Measurement - Area		Frac	tions			Decimals		Consolidation
Summer	Deci	mals		rement- oney	Time	Stat	istics	Geomet	ry- Prope Shape	erties of	Geometry- Position and Direction	Consolidation

Year 4 - Autumn Term

Week 1 Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Number – Place Value Count in multiples of 6, 7, 9. 25 Find 1000 more or less than a g Recognise the place value of ea (thousands, hundreds, tens and order and compare numbers by the lidentify, represent and estimate representations. Round any number to the near solve number and practical properties and with increasingly large. Count backwards through zero Read Roman numerals to 100 (the numeral system changed to and place value.	iven number. Ich digit in a four I ones) eyond 1000 e numbers using est 10, 100 or 10 blems that involute positive numb to include negat I to C) and know	different 00 we all of the bers. ive numbers. that over time,	Add and subtrausing the form columnar addit appropriate. Estimate and utanswers to a columnar addition problems in columnar and utanswers to a columnar addition problems in columnar addition and addition and addition and addition are additional additio	tion and Subtract act numbers with all written metho tion and subtract use inverse opera alculation. and subtraction intexts, deciding d methods to use	n up to 4 digits ods of tion where tions to check two step which	Measurement: Length and Perimeter Measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres Convert between different units off measure [for example, kilometre to metre]	Recall and u facts for mu Count in m Use place v multiply and multiplying multiplying Solve probl adding, incl to multiply integer scal correspond	Aultiplication and use multiplication altiplication table ultiplication table ultiplication table ultiplication and d divide mentally by 0 and 1; divid together three n ems involving m uding using the two digit numbe ing problems and ence problems so ence problems so end to m objects.	and division s up to 12 × 12. 25 and 1000 derived facts to i, including: ing by 1; umbers. ultiplying and distributive law ers by one digit, I harder uch as n objects	Consolidation

Year 4 - Spring Term

Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Recall and use facts for multiply and of multiplying by multiplying to Recognise and commutativity Multiply two oby a one digit layout. Solve problem adding, includ to multiply two integer scaling corresponden	Itiplication and disensification and disensification tables use, known and dedivide mentally, in a one of the control of the c	nd division p to 12 × 12. rived facts to icluding: by 1; ibers. and ations. git numbers mal written plying and ributive law by one digit, arder	Measurement- Area Find the area of rectilinear shapes by counting squares.	equivalent fr Count up and hundredths and dividing Solve proble calculate qua including not number.	nd show, using di actions. d down in hundra arise when dividi tenths by ten. ms involving incr antities, and fract n-unit fractions with	edths; recognise ng an object by o easingly harder t tions to divide qu where the answe	that one hundred fractions to uantities, r is a whole	Find the effect number by 10 the digits in the hundredths Solve simple involving fract decimal place. Convert between the same and th	d write decimal e if tenths or hundi at of dividing a on or 100, identifyi ne answer as one measure and mo ations and decimal is. een different uni kilometre to met	redths. e or two digit ng the value of s, tenths and ney <u>problems</u> als to two	Consolidation

Year 4 - Summer Term

Week 1 Week 2	Week 3 Week 4	Week 5	Week 6 Week 7	Week 8 Week 9 Week 10	Week 11	Week 12
Decimals Compare numbers with the same number of decimal places up to two decimal places. Round decimals with one decimal place to the nearest whole number. Recognise and write decimal equivalents to $\frac{1}{4}$, $\frac{1}{2}$ and $\frac{3}{4}$ Find the effect of dividing a one or two digit number by 10 or 100, identifying the value of the digits in the answer as ones, tenths and hundredths	Measurement- Money Estimate, compare and calculate different measures, including money in pounds and pence. Solve simple measure and money problems involving fractions and decimals to two decimal places.	Time Convert between different units of measure [for example, kilometre to metre; hour to minute] Read, write and convert time between analogue and digital 12- and 24-hour clocks. Solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days.	Statistics Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs. Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs.	Geometry: Properties of shape Identify acute and obtuse angles and compare and order angles up to two right angles by size. Compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes. Identify lines of symmetry in 2-D shapes presented in different orientations. Complete a simple symmetric figure with respect to a specific line of symmetry.	Geometry- Position and Direction Describe positions on a 2-D grid as coordinates in the first quadrant. Plot specified points and draw sides to complete a given polygon. Describe movements between positions as translations of a given unit to the left/ right and up/ down.	Consolidation



Small Steps Guidance and Examples



Year 5 - Yearly Overview

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Autumn	Numb	er – Place	e Value		- Addition otraction	Stati	istics	Multip	ber – lication ivision	73300 30 30 30 50	eter and rea	Consolidation
Spring		r – Multip nd Divisio			N	umber – I	Fractions			Decin	ber – nals & ntages	Consolidation
Summer		Number -	– Decimal:	s	Geomet	ry- Prope Shapes	rties of	Geometry- Position and Direction		rement- ng Units	Measures Volume	Consolidation

Year 5 - Autumn Term

Week 1 Week 2 Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Number – Place Value Read, write, order and compare numbers to at least 1000000 and determine the value of each digit. Count forwards or backwards in steps of powers of 10 for any given number up to 1000000. Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers including through zero. Round any number up to 1000000 to the nearest 10, 100, 1000, 10000 and 100000 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.	written metho addition and s Use rounding t answers to cal	act numbers increasingly increasingly increasingly increasingly increasing formal designation and the context of els of and ulti-step ontexts, in operations	Statistics Solve comparis difference prol information pr line graph. Complete, read information in including timet	olems using esented in a d and interpret tables	facts. Multiply and dinumbers by 10 Identify multiplincluding findin a number, and two numbers. Recognise and numbers and of the notation for cubed (3) Solve problems multiplication a including using of factors and rand cubes. Know and use the prime numbers composite (nor	ivide numbers ing upon known ivide whole , 100 and 1000. Iles and factors, ing all factor pairs of common factors of use square ube numbers and ir squared (2) and is involving and division their knowledge multiples, squares the vocabulary of the vocabulary of the prime factors and in-prime) numbers. ther a number up to independent of the prime there a number up to independent of the prime there a number up to independent of the prime there a number up to independent of the prime there a number up to independent of the prime there a number up to independent of the prime there a number up to independent of the prime there a number up to independent of the prime there a number up to independent of the prime	Perimeter and Measure and perimeter of or rectilinear sha and m. Calculate and the area of rectilinear squ including squ including usin units, cm², m² the area of irm shapes.	calculate the composite apes in cm compare ctangles lares), and g standard estimate	Consolidation

Year 5 - Spring Term

Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Multiply and drawing upon Multiply num or two digit number written meth multiplication Divide number in mumber method of sh remainders a context. Solve probler subtraction, and a combin	ultiplication and divide numbers in known facts. In the sumber using a food, including long for 2 digit numbers up to 4 digits using the formation division and appropriately for multiplication are involving addition of these, and the use of the	mentally itis by a one formal ing libers. Is by a one al written interpret	Identify, name tenths and hun Recognise mixe write mathema Add and subtra the same numb Multiply proper diagrams. Read and write Solve problems	and write equiva dredths. In discontinuous	improper fractions of improper fraction >1 as a mixed no the same denor nixed numbers by rs as fractions [for polication and divi	a given fraction, ns and convert fr umber [for exam ninator and deno y whole number: or example 0.71	of the same number represented vision one form to ple $\frac{2}{5} + \frac{4}{5} = \frac{6}{5} = 1\frac{1}{5}$ ominators that and supported by number $\frac{71}{100}$] saling by simple f	the other and] re multiples of	Read, write, order numbers with up places. Recognise and use relate them to ter and decimal equivalences to the near number and to or solve problems in up to three decimal ecognise the per and understand the relates to 'number hundred', and write a fraction with deand as a decimal. Solve problems we knowing percentary	to three decimal e thousandths and oths, hundredths valents. with two decimal rest whole le decimal place. volving number al places. recent symbol (%) hat per cent or of parts per tite percentages as nominator 100, hich require lige and decimal $\frac{1}{4}$, $\frac{1}{3}$, $\frac{2}{3}$, $\frac{4}{3}$ and those enominator of a	Consolidation

Year 5 - Summer Term

Week 1 Week 2 Week 3 Week 4	Week 5 Week 6 Week 7	Week 8	Week 9 Week 10	Week 11	Week 12
Number: Decimals 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.	Geometry- Properties of Shapes and Angles Identify 3D shapes, including cubes and other cuboids, from 2D representations. 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. Draw given angles, and measure them in degrees (°) Identify: angles at a point and one whole turn (total 360°), angles at a point on a straight line and ½ a turn (total 180°) other multiples of 90°	Geometry- position and direction 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 changed.	Measurement- converting units Convert between different units of metric measure [for example, km and m; cm and m; cm and mm; g and kg; l and ml] Understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints. Solve problems involving converting between units of time.	Measures Yolume Estimate volume [for example using 1cm³ blocks to build cuboids (including cubes)] and capacity [for example, using water] Use all four operations to solve problems involving measure.	Consolidation