

Knypersley First School



Mathematics coverage EYFS – Year 6



	Mathematics											
0-3 year olds (Pre -Nursery)												
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								
 Combine objects like stacking blocks and cups. Put objects inside others and take them out again. Climb and squeezing selves into different types of spaces. Build with a range of resources 	group of up to t Counting-like	behaviour, such as pointing or saying n sequence.	numbers Compare amount or 'same'. Count in everyd sometimes skipp 5.'	ger rhymes with ts, saying 'lots', 'more' ay 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



Mathematics Mathematics Mathematics										
	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



	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
		→	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 Counting to 9 and 10 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 Value	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



Year 1

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	N		Place Valu in 10)	e	Numbe	r: Addition (with	n and Sub in 10)	traction	Geometry: Shape	Va	r: Place lue in 20)	Consolidation
Spring	Number		n and Sub in 20)	traction	(Multip	(Within 50) (Multiples of 2, 5 and 10				rement: Measurement: th and Weight and ight Volume		
Summer					nber: tions	Geometry: position and direction	Numbe Va (withi	r: Place lue n 100)	Measurement : money	Tir	me	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 or from any given number. Count, read and write num Given a number, identify of Identify and represent num representations including than the same and the same and the same are same as the same are same as the same are same and the same are sam	nbers to <u>10</u> in numera one more or one less. mbers using objects a the number line, and	als and words. nd pictorial use the	Represent and facts within 10 Read, write an addition (+), su Add and subtra Solve one step subtraction, us	tion and Subtract I use number boo I use number boo I use number math ubtraction (-) and act one digit num problems that it sing concrete ob ns and missing num s and missing numbers.	nds and related s nematical statem d equals (=) signs nbers to 10, inclusive nvolve addition s jects and pictoria	ents involving i. uding zero. and	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 Count to twent and backwards with 0 or 1, fro number. Count, read an numbers to 20 and words. Given a number more or one le Identify and re numbers using pictorial repres including the n and use the lar equal to, more, (fewer), most,	ty, forwards beginning many given d write in numerals r, identify one ss. present objects and sentations umber line, nguage of: than, less than	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 mathe obtraction (-) and act one-digit and	ds and related : ematical statem equals (=) signs two-digit numb evolve addition a	nents involving s. pers to 20, and al	beginning with Count, read an numerals. Given a numbe Identify and re and pictorial re number line, ai to, more than,	rwards and backy 0 or 1, or from a d write numbers er, identify one m present numbers epresentations in nd use the langua less than (fewer) ples of twos, five	to <u>50</u> in ore or one less. susing objects cluding the age of: equal , most, least.	Height Measure an record lengtheights. Compare, disolve practifor: lengths (for example)	escribe and cal problems and heights e, long/short, rter, tall/short,	Measuremen and Volume Measure and record mass/ capacity and Compare, de- solve practice for mass/wei example, hea- heavier than, than]; capaci volume [for e- full/empty, n less than, hal quarter]	begin to weight, volume. scribe and al problems ight: [for wy/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
Number: Multiplication and Division Count in multiples of twos, fives and tens. 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.	Number: Fractions 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. Compare, describe and solve practical problems for: lengths and heights (for example, long/short, longer/shorter, tall/short, double/half) Compare, describe and solve practical problems for: mass/weight [for example, heavy/light, heavier than, lighter than]; capacity and volume [for example, full/empty, more than, less than, half, half full, quarter]	Geometry: position and direction Describe position, direction and movement, including whole, half, quarter and three quarter turns	Number: Place Value Count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number. Count, read and write numbers to 100 in numerals. Given a number, identify one more and 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, most, least.	Measuremen t: Money Recognise and know the value of different denominatio ns of coins and notes.	Measurement: Time Sequence events in chronological order using language [for example, before and after, next, first, today, yesterday, tomorrow, morning, afternoon and evening. Recognise and use language relating to dates, including days of the week, weeks, months and years. Tell the time to the hour and half past the hour and draw the hands on a clock face to show these times. Compare, describe and solve practical problems for time [for example, quicker, slower, earlier, later] Measure and begin to record time (hours, minutes, seconds)	Consolidation



Year (2)

Small Steps Guidance and Examples





Year 2 - 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	F	Number: Place valu		Nu	mber: Ad	dition and	l Subtract	ion		rement: ney	Number: Multiplication and Division	
Spring	Multipl	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
Number – Place Value 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 urepresentations, and mental two-digit number and tens; thumbers. Show that the addition of two (commutative) and subtraction pictorial representations, including and measures; applying their methods. Recognise and use the inversibility and use this to coproblems.	ubtraction facts sing concrete ob y, including: a tv wo two-digit nur o numbers can b on of one number and subtraction luding those inve- increasing know	jects, pictorial vo-digit number mbers; adding the ee done in any o er from another a: using concrete plying numbers, wledge of menta	and ones; a nree one-digit order cannot. e objects and quantities I and written	combine amor particular valu Find different	d use symbols and pence (p); unts to make a se. combinations equal the same oney. croblems 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, s, arrays, ion, mental multiplication and ncluding ntexts. multiplication of can be done in mutative) and number by



Year 2 - Spring Term

Week 1 Week 2	Week 3 Wee	4 Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Multiplication and Division Recall and use multiplication and division facts for the 2, 5 and 10 times tables, including recognising odd and even numbers. Calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (×), division (+) and equals (=) signs. Solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods and multiplication and division facts, including problems in contexts. Show that the multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot.	Statistics Interpret and construct simple pictograms, tall charts, block diagrams simple tables. Ask and answer simple questions by counting number of objects in excategory and sorting the categories by quantity. Ask and answer questing about totalling and comparing categorical	Identify and of shapes, included in the symmetry and of shapes, included vertices and finds the shapes, included t	operties of shape lescribe the prope ling the number of y in a vertical line. lescribe the prope ling the number of aces. hapes on the surfa example, a circle of on a pyramid.] sort common 2-D veryday objects.	erties of 2-D of sides and erties of 3-D of edges, ace of 3-D n a cylinder	$\frac{1}{4'}\frac{2}{4}$ and $\frac{3}{4}$ of a quantity. Write simple fi	tions d, name and writh length, shape, see fractions for example the equivalence	et of objects or mple, $\frac{1}{2}$ 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/m) 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 mo distinguishing and in terms half and thre and anti-cloc Order and an	atical vocabulary ection and move vement in a stra g between rotati of right angles fi e-quarter turns	ment ight line and ion as a turn or quarter, (clockwise	Problem solvii 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 times.	e the time to including /to the hour e hands on a show these mber of a hour and of hours in a	Choose and u units to estim length/height mass (kg/g); t (litres/ml) to t using rulers, s measuring ver	se appropriate late and measu in any directio emperature (*C the nearest app scales, thermon ssels order lengths, city and record	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	Nur	mber – Ad	ldition and	d Subtrac	tion	Numbe a	Consolidation		
Spring		er - Multipl nd Divisio		Measurement: Money	Statistics Measurement: length and perimeter Fractions							Consolidation
Summer	Number – fractions				easureme Time	nt:	Prope	netry – rties of apes		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
rind 10 or 100 inumber Recognise the pathree-digit num Compare and or Read and write numerals and in Solve number prinvolving these	ent and estimate representations. more or less that place value of ea aber (hundreds, rder numbers up numbers up to a n words.	n a given ch digit in a tens, ones). to 1000 1000 in actical problems	Add and subtrones; a three-orange and subtrones and subtrone methods of control Estimate the answers.	digit number and act numbers wit dumnar addition inswer to a calcu	ntally, including: I tens; a three di h up to three dig and subtraction lation and use in ing number prot	verse operations	nundreds. written s to check	Count from 0 in Recall and use n and 8 multiplica Write and calcu multiplication a they know, inclu numbers, using methods. Solve problems, involving multip integer scaling p	in multiples of 4, 1 multiplication and ition tables. Itiate mathematin uding for two-digmental and prog including missin dication and divisor oblems and col are connected to	d division facts al statements g the multiplica git numbers tin gressing to forn g number prot sion, including prespondence p	for ation tables nes one-digit nal written plems, 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 an Write and calc for multiplication two-digit num using mental a written metho Solve problem problems, invidivision, incluiproblems and	tiplication and di multiplication ard 8 multiplication ard 8 multiplication ulate mathemati ion and division utables they know bers times one-dind progressing to dis. s, including missipliving multiplication of the correspondence is are connected.	ad division facts a tables. cal statements using the tincluding for tigit numbers, to formal ng number on and ger scaling problems in	Measuremen t - money Add and subtract amounts of money to give change, using both f and p in practical contexts.	Statistics Interpret and pusing bar chart and tables. Solve one-step questions [for many more?' a fewer?'] using presented in so charts and pict tables.	and two-step example, 'How and 'How many information caled bar	Measure, comp (m/cm/mm); n (l/ml).	elength and peri pare, add and su nass (kg/g); volur erimeter of simp	btract: lengths me/capacity	recognise that from dividing a 10 equal parts one-digit numl quantities by 1	down in tenths; tenths arise in object into and in dividing overs or o use fractions as fractions and ons with small and write liscrete set of actions and ons with small	Consolidation



Year 3 - Summer Term

Week 1 Week 2 Week 3		ek 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 f including using Roman n and 12-hour and 24-hou Estimate and read time of accuracy to the nearest Record and compare time minutes and hours. Use vocabulary such as of morning, afternoon, not Know the number of section the number of days in exite the number of days in exite pyear. Compare durations of excalculate the time taken tasks].	with increasing minute. or clock, a.m./p.m., on and midnight. conds in a minute and ach month, year and wents [for example to	of shape or a d turn. Identify right a that two right a half-turn, three quarters of a tu complete turn; whether angles than or less tha Identify horizon lines and pairs perpendicular a lines.	es as a property escription of a ngles, recognise angles make a e make three urn and four a identify s are greater an a right angle. ntal and vertical of and parallel es and make 3- modelling shapes in tations and	Measure, com	— mass and capa pare, add and su /mm); mass (kg/ ity (I/ml).	ubtract:	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						er- Additi Subtractio		Measurement - Length and Perimeter		lication	Consolidation	
Spring	eut					Frac	tions		Decimals			
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
Count in multiples of 6, 7, 9.25 and 1000. Find 1000 more or less than a given number. Recognise the place value of each digit in a four digit number (thousands, hundreds, tens and ones) Order and compare numbers beyond 1000 Identify, represent and estimate numbers using different representations. Round any number to the nearest 10, 100 or 1000 Solve number and practical problems that involve all of the above and with increasingly large positive numbers. Count backwards through zero to include negative numbers. Read Roman numerals to 100 (I to C) and know that over time, the numeral system changed to include the concept of zero and place value.	Number- Addition and Subtraction Add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate. Estimate and use inverse operations to check answers to a calculation. Solve addition and subtraction two step problems in contexts, deciding which operations and methods to use and why.	Measurement: Length and Perimeter Measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres Convert between different units of measure [for example, kilometre to metre]	Number – Multiplication and Division Recall and use multiplication and division facts for multiplication tables up to 12 × 12. Count in multiples of 6, 7, 9, 25 and 1000 Use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together three numbers. Solve problems involving multiplying and adding, including using the distributive law to multiply two digit numbers by one digit, integer scaling problems and harder correspondence problems such as n objects are connected to m 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 u facts for mu Use place va multiply and multiplying to Recognise at commutativ Multiply two by a one dig layout. Solve proble adding, inclu to multiply to integer scali corresponde	ultiplication and dise multiplication artiplication tables ulue, known and de divide mentally, in yo 0 and 1; dividing together three number using for ms involving multiplication digit number using for ms involving multiplication digit numbers the mg problems and hance problems and hance problems and hance problems and to m objects.	nd division p to 12 × 12. rived facts to cluding: by 1; abers. and ations. cit 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 problet calculate qua including not number.	d down in hundr arise when dividi tenths by ten. ms involving inco antities, and frac n-unit fractions v	iagrams, families edths; recognise ing an object by o reasingly harder t tions to divide qu where the answe ith the same den	that one hundred fractions to uantities, r is a whole	any number o Find the effect number by 10 the digits in th hundredths Solve simple i involving fract decimal place Convert between	d write decimal er f tenths or hundi t of dividing a on or 100, identifying the answer as one measure and mo tions and decimals.	e or two digit ng the value of s, tenths and ney problems 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	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. 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.	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 straction	Stat	istics	Multip	ber – lication ivision		ter and ea	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	Measur Converti		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 compaileast 1000000 and determine seach digit. Count forwards or backwards in powers of 10 for any given nur 1000000. Interpret negative numbers in forwards and backwards with integrative whole numbers inclusive. Round any number up to 1000 nearest 10, 100, 1000, 10000 at Solve number problems and problems that involve all of the Read Roman numerals to 1000 recognise years written in Roman Roman numerals to 1000 recognise years written in Roman Roman numerals to 1000 recognise years written in Roman Roman numerals to 1000 recognise years written in Roman Roman numerals to 1000 recognise years written in Roman Rom	n steps of nber up to context, count cositive and ling through 000 to the nd 100000 actical above.	Number- Addit Subtraction Add and subtra mentally with i large numbers Add and subtra numbers with digits, includin written metho addition and s Use rounding t answers to cal determine, in t a problem, levi accuracy. Solve addition subtraction mu problems in co deciding which and methods t why.	act numbers increasingly act whole more than 4 g using formal ds (columnar ubtraction) to check culations and the context of els of and ulti-step intexts, a operations	Statistics Solve comparis difference prob information pre line graph. Complete, read information in t including timet	esented in a and interpret tables	facts. Multiply and dinumbers by 10, Identify multiplincluding findin a number, and two numbers. Recognise and numbers and cithe notation for cubed (3) Solve problems multiplication a including using of factors and rand cubes. Know and use the prime numbers composite (nor	vide numbers ng upon known vide whole , 100 and 1000. des and factors, ng all factor pairs of common factors of use square ube numbers and r squared (²) and involving and division their knowledge nultiples, squares the vocabulary of the prime factors and	Perimeter and Measure and perimeter of crectilinear sha and m. Calculate and the area of rec (including squincluding squincluding usin units, cm², m² the area of irreshapes.	calculate the composite spes in cm compare ctangles ares), 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
Number – Multiplication and Division Multiply and divide numbers mentally drawing upon known facts. Multiply numbers up to 4 digits by a one or two digit number using a formal written method, including long multiplication for 2 digit numbers. Divide numbers up to 4 digits by a one digit number using the formal written method of short division and interpret remainders appropriately for the context. Solve problems involving addition and subtraction, multiplication and division and a combination of these, including understanding the use of the equals sign.	Number: Fractions Compare and order fractions w Identify, name and write equivatenths and hundredths. Recognise mixed numbers and write mathematical statements Add and subtract fractions with the same number. Multiply proper fractions and n diagrams. Read and write decimal number. Solve problems involving multiproblems involving simple rate:	mproper fractions of mproper fraction >1 as a mixed nu the same denon iixed numbers by as as fractions [for	a given fraction, as and convert fr imber [for exam ninator and deno whole numbers or example 0.71	represented visorom one form to pple $\frac{2}{5} + \frac{4}{5} = \frac{6}{5} = 1\frac{1}{3}$ cominators that a s, supported by $r = \frac{71}{100}$	ually including the other and] re multiples of	Number: Decimals Read, write, order numbers with up to places. Recognise and use relate them to ten and decimal equiv Round decimals we places to the near number and to on Solve problems in up to three decimals. Recognise the per and understand the relates to 'number hundred', and write a fraction with decimal as a decimal. Solve problems with a fraction with decimal as a decimal. Solve problems with nowing percental equivalents of \$\frac{1}{2}\frac{7}{4}\$ fractions with a decimal and so the fractions with a decimal solve problems with a	and compare to three decimal ethousandths and oths, hundredths valents. Whith two decimal est whole the decimal place. Wolving number all places. Cent symbol (%) that per cent of parts per the percentages as nominator 100, thich require ge and decimal the system of the percent of a system of the percentage and the percentage and the system of the percentage and the system of the percentage and	Consolidation



Year 5 - Summer Term

Week 1 W	eek 2 Wee	ek 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Number: Decimals Solve problems involv Multiply and divide w decimals by 10, 100 a Use all four operation for example, length, r notation, including so	whole numbers and and 1000. Ins to solve problem mass, volume, mor	d those in	nvolving	Identify 3D sha cuboids, from 2 Use the proper related facts an angles. Distinguish bet polygons based and angles. Know angles ar and compare a Draw given ang degrees (°) Identify: angles (total 360°), an	perties of Shapes pes, including cub the representation ties of rectangles and find missing len ween regular and on reasoning about the measured in decute, obtuse and it les, and measure at a point and on gles at a point on otal 180°) other m	to deduce ngths and irregular out equal sides grees: estimate reflex angles. them in	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.	example, km a m; cm and mn and ml] Understand al approximate of between metri common impe as inches, pou	een different c measure [for and m; cm and n; g and kg; l and use equivalences ic units and erial units such and pints.	Measures Volume 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



Year 6

Small Steps Guidance and Examples





Year 6 - 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		r- Place lue		er- Addition				Frac	Geometry- Position and Direction	Consolidation		
Spring		nber- mals	Num Percer			nber- ebra	Measurement Converting units	Measurement Perimeter, Area and Volume Number- Ratio				Consolidation
Summer	Proper	netry- rties of pes	Prol	Problem solving			istics		Investi	gations		Consolidation



Year 6 - 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 up to 10,000,000 and determine the value of each digit. Round any whole number to a required degree of accuracy. Use negative numbers in context, and calculate intervals across zero. Solve number and practical problems that involve all of the above.	Number- addition sub Solve addition and sut deciding which operat Multiply multi-digit nu the formal written me Divide numbers up to formal written methor whole number remain for the context. Divide numbers up to written method of sho to the context. Perform mental calcul large numbers. Identify common factor Use their knowledge of calculations involving: Solve problems involv division. Use estimation to che the context of a problem	btraction multions and met umber up to 4 ethod of long 4 digits by a 3 d of long divisioners, fraction 4 digits by a 3 ort division, in lations, include ors, common of the order of the four oper ring addition,	ti step problems shods to use and digits by a 2-dig multiplication. 2-digit whole nu sion, and interpr ns, or by roundir 2-digit number to atterpreting remaining with mixed multiples and p f operations to c attions. subtraction, mu	s in contexts, I why. Igit number using Imber using the ret remainders as ng as appropriate using the formal ainders according operations and rime numbers. carry out Itiplication and Id determine in	multiples to exp Compare and of Generate and of fractions) Add and subtra mixed numbers Multiply simple in its simplest for Divide proper fraction equival fraction [for example of example o	actors to simplify press fractions in order fractions, in describe linear nutritions with s , using the concerning of properform [for example ractions by whole stion with division lents [for example $\frac{3}{8}$] equivalences between energy including a simple $\frac{3}{8}$.	the same denoted the same denoted the same denoted the sequence of the sequen	omination. as > 1 es (with minations and at fractions. ag the answer example $\frac{1}{3} \div 2$ decimal simple actions,	Geometry-Position and Direction Describe positions on the full coordinate grid (all four quadrants). Draw and translate simple shapes on the coordinate plane, and reflect them in the axes.	Consolidation



Year 6 - 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
Number: Decimals Identify the value of each digit in numbers given to 3 decimal places and multiply numbers by 10, 100 and 1,000 giving answers up to 3 decimal places. Multiply one-digit numbers with up to 2 decimal places by whole numbers. Use written division methods in cases where the answer has up to 2 decimal places. Solve problems which require answers to be rounded to specified degrees of accuracy.	Number: Percentages Solve problems involving the calculation of percentages [for example, of measures and such as 15% of 360] and the use of percentages for comparison. Recall and use equivalences between simple fractions, decimals and percentages including in different contexts.	Number: Algebra Use simple formulae Generate and describe linear number sequences. Express missing number problems algebraically. Find pairs of numbers that satisfy an equation with two unknowns. Enumerate possibilities of combinations of two variables.	Measurement Converting Units Solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate. Use, read, write and convert between standard units, converting measurements of length, mass, volume and time from a smaller unit of measure to a larger unit, and vice versa, using decimal notation to up to 3dp. Convert between miles and kilometres.	Measurement: Perimeter, Area and Volume Recognise that shapes with the same areas can have different perimeters and vice versa. Recognise when it is possible to use formulae for area and volume of shapes. Calculate the area of parallelograms and triangles. Calculate, estimate and compare volume of cubes and cuboids using standard units, including cm³, m³ and extending to other units (mm³, km³)	Number: Ratio Solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts. 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.	Consolidation



Year 6 - 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
Geometry: Properties of Shapes Draw 2-D shapes using given dimensions and angles. Compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals and regular polygons. Recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles.	Problem Solvi	ing		circles, includi diameter and and know that is twice the ra Interpret and charts and line	circumference t the diameter dius. construct pie e graphs and olve problems.	Investigations				Consolidation