



Number: Number and	d Place Value			Counting				
Preschool 1		Preschool 2			Rece	eption		
Take part in finger rhymes Develop counting-like beh- sounds, pointing or saying sequence. Count in everyday context number '1-2-3-5'.	aviour, such as mal some numbers in	Know that the I objects tells you	r name for each item ast number reached	n in order: 1, 2, 3, 4, 5. If when counting a small set of the intotal ('cardinal principle').	Count	t objects, actions and sounds. t beyond ten.		
Year 1		Year 2	Year 3	Year 4		Year 5		Year 6
Count to and across 100, for backwards, beginning with any given number. Count, read and write num numerals; count in multiple and tens. Given a number, identify of less.	0 or 1, or from bers to 100 in es of two's, fives	2, 3 and 5 from 0, and in tens from any number, forwards and	Count from 0 in multiples of 4, 8, 50 and 100; Find 10 or 100 more or less than a given number.	Count backwards through zero to include negative numbers. Count in multiples of 6, 7, 9, 25 and 1000. Find 1000 more or less than a given number.		Interpret negative numbers in contex forwards and backwards with positive negative whole numbers, including th Count forwards or backwards in steps 10 for any given number up to 1,000,	e and nrough zero. s of powers of	Use negative numbers in context, and calculate intervals across zero.
Number: Number and	l Place Value			Comparing numbers				
Preschool 1	Preschool 2			Reception				
Compare amounts, saying 'lots', 'more' or 'same'.	Compare quantit than'.	ies using language: 'mo	re than', 'fewer	Compare numbers. Understand the 'one more than/on	e less t	than' relationship between consecutiv	ve numbers.	
Year 1	Year 2		Year 3	Year 4		Year 5	Year 6	
Use the language of: equal to, more than, less than (fewer), most, least. Given a number, identify one more and one less.	Compare and ord 100; use <, >and	er numbers from 0 up t = signs.	o Compare and order numbers up to 1000.	1000. Compare numbers with the same	Compare numbers with the same and determ number of decimal places up to two digit (appea			order and compare o 10 000000 and e value of each digit in Reading and Writing
Number: Number and	l Place Value			Identifying, representing a	nd es	stimating numbers		
Preschool 1		Preschool 2			Re	eception		
Combine objects like stacking blocks and cups. Put objects inside others and take them out again. React to changes of amount in a group of up to three items. Develop fast recognition of up to 3 objects individually ('subitising'). Show 'finger numbers' up to 5. Link numerals and amounts: for example, match the numeral, up to 5. Experiment with their own symbols and m				nowing the right number of objects to	Link the number symbol (numeral) with its cardinal number value.			per value.



Vaar 1											
Year 1	Year 2		Y	ear 3		Year	4	Year 5		Year 6	
Identify and represent numbers using		, represent and estima		• • • •	esent and estimate		fy, represent and				
objects and pictorial representations		s using different repre	-	umbers usin	~		ate numbers using				
including the number line.	includin	g the number line.	re	epresentatio	ins.	differe	ent representation	S			
Number: Number and Place Val	lue			Underst	anding Place Value						
Preschool 1 Preschool 2	Reception										
		ne 'one more than/ one omposition of numbers		onship betw	een consecutive number	rs.					
Year 1 Year 2		Year 3		Year	ear 4 Year 5				Year 6		
	ne place value	Recognise the place	value of each di				Read, write, orde	er and compare	Read, write, ord	er and compare	
	in a two-digit	in a three digit numb	oer (hundreds,	· · · · · · · · · · · · · · · · · · ·				ast 1,000000 and	numbers up to		
number (ten	s, ones).	tens, ones).		(thousands, hundreds, tens and determ ones).			determine the vi	alue of each digit.	10 000 000 and value of each dig		
				Ones	•				value of each all	514	
Number: Number and Place Val	lue	Rea	ding and writ	ting numb	ers (including Roma	an Nun	merals)				
Preschool 1		school 2			ception						
		umerals and amounts:									
	up to	ght number of objects in 5.	to match the hui	merai, Lin	k the number symbol (nu	ımerai) v	with its cardinal nu	mber value.			
		iment with their own s	ymbols and mar	ks as							
		s numerals.			1						
Year 1 Year 2	Year	3	Year 4		Year 5			Year 6			
Read and write Read and write		and write numbers	Read Roman no		Read, write, order and			Read, write, order a			
numbers from 1 to numbers to at lead 20 in numerals 100 in numerals		1000 in numerals n words.	100 (I to C) and over time, the		at least 1000000 and of each digit (appears als			000 and determine in Understanding P		digit (appears also	
and in words.		nd write the time	system change		numbers).	so iii coi	liparilig	iii Oliderstalldilig F	iace value).		
		an analogue clock,	include the cor		Read Roman numerals	s to 100	O(M) and				
		ling using Roman erals from I to XII,	zero and place	value.	recognise years writte	en in Ror	man numerals.				
	and 12-hour and 24-hour clocks (copied from										
Number: Number and Place Value				Roundin	g						
	ar 3 Year	4		Year 5 Year 6							
		d any number to the n	earest 10, 100				Round any whole number to a required degree of				
	or 1000.), 10000 and 100000.	ace	accuracy.				



110g1	2331011 0	Jan	<u>is Matrie</u>	- Indicate	the nearest whole number (also in fractions).				cimals with two decimal places the hole number and to one decimals).				which require answers t es of accuracy (also in fra		
Numb	er: Num	ber ar	d Place V	'alue					Problem	Solving					
Presch	nool 1				Preschool 2					Reception					
					Solve real world m to 5.	athemat	ical probl	ems with nur	nbers up						
Year 1			Year 2	•		Year 3	3	Year 4		Year 5				Year 6	
	Use place value and numbers facts to solve problems. Solve numbers problems a practical problems involving these ideas umber: Addition and Subtraction					ms and al ms	Solve numb practical pr that involve above and increasingly positive nu	oblems e all of the with r large	ractical pro	oblems that		Solve number and pracinvolve all of the above	•		
Numb	er: Addit							Number I	Bonds						
Presch	nool 1 Preschool 2 Reception Year 1						Year 2		Year 3	Year 4	Year 5	5	Year 6		
	Chool 1 Preschool 2 Reception Year 1 Automatically recall number bonds for numbers 0-5 and some to 10. Represent and use number bonds and related subtraction fact within 20.				iber nd ion facts	Recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100.									
Numb	er: Addit	ion a	nd Subtra	ction					Mental Ca	alculation					
Presch	nool 1	Presc	hool 2	Recep	tion				Year 1						
		Automatically recall number bonds for numbers 0-5 and some to 10.					bers 0-5	Add and s Read, wri	cally recall number bonds 0 – 10 subtract one digit and two-digit te and interpret mathematical s also in Written Methods).	numbers t			+), subtraction (-) and ec	quals (=) signs	



Year 2			Year 3		Year 4	Year 5		Yea	ar 6			
objects, mentall a two a two two t addir Show th	pictorial rep y, including: p-digit number digit number wo-digit numang at three one- lat addition of any order (c	er and tens	Add and subtract mentally, include a three-digit is ones a three-digit is tens	 mentally, including: a three-digit number and ones a three-digit number and tens a three-digit number and 		Add and s	ubtract numbers mentally asingly large numbers.	Per nun Use	form mental calc nbers.	of the order of ope		d operations and large o carry out calculations
Numb	er: Additio	on and Subtraction			Writte	n Metho	ds					
EYFS	Year 1		Year 2	Year 3		Year 4			Year 5	Year 6		
	Read, write and interpret mathematical statements involvin addition (+), subtraction (-) and equals (=) signs (appears also in Mental Calculation).		ng	Add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction.		digits usi	subtract numbers with up ing the formal written met inar addition and subtracti opropriate.	hods	more than 4 di	ict whole numbers w gits, including using ds (columnar additio	formal	
Numb	er: Additio	on and Subtraction			Inverse	e operation	ons, estimating and c	hecki	ng answers			
EYFS	Year 1	Year 2		Year 3	Ye		ar 4	Year 5			Year 6	
Newsla	o 0 alaliai	Recognise and use the between addition and this to check calculation number problems.	subtraction and use	calculation a	e answer to a and use inverse to check answers	ope s. ans	imate and use inverse erations to check ewers to a calculation	calcul	ounding to check ations and deteri xt of a problem, I		answer determ	timation to check rs to calculations and nine, in the context of a m, levels of accuracy.
EYFS	Year 1		Voor 2		Problei	m Solving		Year	1	Voor 5	Τv	/ear 6
LIIJ	Solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as $7 = \Box - 9$.		Year 2 Solve problems with addition and subtraction: -using concrete objects and pictorial representations, including those involving numbers, quantities and metapplying their increasing knowledge of mental and with methods. Solve simple problems in a practical context involving and subtraction of money of the same unit, including a change.		easures. vritten g addition	Solve problems, including missing ses. number problems, using number facts, place value, and more complex addition and		addition and action two-step ems in xts, deciding operations nethods to use why.	Year 5 Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.		iolve addition and ubtraction multi-step problems in contexts, leciding which operations and methods o use and why. Solve problems involving addition, subtraction, nultiplication and livision.	



		or skills iviathernatics										'ary Sc
MULTI	PLICATION	ON AND DIVISION		M	ultiplication	n and divis	sion f	facts				
EYFS		Year 1	Year 2	2	Year 3			Year 4		Year 5		Year 6
		Count in multiples of twos, fives and tens.		n steps of 2, 3, and 5 from 0, and in om any number, forward or ard.	Count from 4, 8, 50 and	0 in multiples I 100	s of	Count in mu 9, 25 and 1 000.	Iltiples of 6, 7,	Count forwar backwards in powers of 10 number up to	steps of for any given	
		Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers.		and use multiplication and division or the 3, 4 and 8 multiplication	division fac	iplication and ts for ons tables up						
MULTI	PLICATION	ON AND DIVISION		Mental ca	lculation							
EYFS	Year 1	Year 2		Year 3	Year 4				Year 5		Year 6	5
				Write and calculate mathematical s for multiplication and division using multiplication tables that they know for two-digit numbers times one dignumbers, using mental and progres formal written methods.	the v, including git	Use place va derived fact divide ment multiplying dividing by 2 together thr	s to mally, in by 0 a 1; mul	nultiply and ncluding: and 1; Itiplying	Multiply and numbers me drawing upo facts.	ntally	Perform menta including with operations and	
		Show that multiplication of two r can be done in any order (commu and division of one number by an cannot.	ıtative)			Recognise a and commu calculations	tativit	e factor pairs ty in mental	Multiply and numbers and involving de 100 and 100	cimals by 10,	Associate a fra division and ca fraction equiva 0.375) for a sin (e.g. 3 /8).	lculate decimal ilents (e.g.
MULTI	PLICATION	ON AND DIVISION		Written ca	alculations							
EYFS	Year	1 Year 2	Year 3		Year 4		Year	r 5		Year 6		
	Calculate mathematical statements for stater multiplication and using division within the multiplication tables and times			nd calculate mathematical ents for multiplication and division e multiplication tables that they including for two-digit numbers ne-digit numbers and sing to formal written method.	three-digit numbers by a by a onedigit number using using formal written inclu				ligit number tten method, tiplication for	Multiply multi-digit number a two-digit whole number u , written method of long multiple.		ng the formal
	(÷) and equals (=) signs.						Divide numbers up by a one-digit num formal written me division and interpremainders appro		nber using the thod of short pret	the whole number using the method of short division for the context divide r		al written re appropriate rs up to 4 digits



Progression of skills Mathematics the context. written method of long division, and interpret remainders as whole number remainders, fractions, or by rounding, as appropriate for Use written division methods in cases where the answer has up to two decimal places. MULTIPLICATION AND DIVISION Properties of numbers: Multiples, factors, primes, square and cube numbers Year 1 Year 2 **FYFS** Year 3 Year 4 Year 5 Year 6 Identify multiples and factors, including finding all factor pairs of a number, and Identify common factors, common multiples and Recognise and use common factors of two numbers. factor pairs and prime numbers. commutativity in Use common factors to simplify fractions; Know and use the vocabulary of prime numbers, prime factors and composite mental calculations. use common multiples to express fractions in the same denomination (nonprime) numbers. Establish whether a number up to 100 is prime and recall prime numbers up to Recognise and use square numbers and cube numbers, and the notation for Calculate, estimate and compare volume of cubes squared and cubed. and cuboids using standard units, including centimetre cubed and cubic metres, and extending to other units. **MULTIPLICATION AND DIVISION Order of operations EYFS** Year 1 Year 2 Year 3 Year 4 Year 5 Year 6 Use their knowledge of the order of operations to carry out calculations involving the four operations. **MULTIPLICATION AND DIVISION** Inverse operations, estimating and checking answers **EYFS** Year 1 Year 2 Year 3 Year 4 Year 6 Year 5 Estimate the answer to a Estimate and use inverse operations to check answers to a Use estimation to check answers to calculation and use inverse calculation. calculations and determine, in the operations to check answers. context of a problem, levels of accuracy. **MULTIPLICATION AND DIVISION Problem solving EYFS** Year 1 Year 2 Year 3 Year 4 Year 5 Year 6 Solve one-step problems involving Solve problems involving Solve problems, including Solve problems Solve problems involving Solve problems involving multiplication and division, by multiplication and division, using missing number problems, involving multiplying multiplication and division addition, subtraction, calculating the answer using involving multiplication and multiplication and materials, arrays, repeated and adding, including including using their knowledge concrete objects, pictorial addition, mental methods, and division, including positive using the distributive of factors and multiples. division. representations and arrays with multiplication and division facts, integer scaling problems and law to multiply two squares and cubes. the support of the teacher. including problems in contexts. correspondence problems in digit numbers by one Solve problems involving which n objects are digit, integer scaling addition, subtraction, connected to m objects. problems and harder multiplication and division and correspondence a combination of these.



FIURIE	PRINCIPLE	is iviatnema	11103											nary sch
							obje	olems su ects are c n objects	connected		understar of the equ			
									1	multiplica including fractions	oblems invo ation and o scaling by and proble simple rat	division, simple ems	similar scale fa	oroblems involving shapes where the actor is known or found.
Fraction	s (including	Decimals an	d Percenta	ges)	Counting i	n fractional steps								
EYFS	Year 1	Year 2		•		Year 3		Year 4	4		Year 5		Year 6	
		Count in fractions up to 10, starting from any nur using the 1/2 and 2/4 equivalence on the numbe g Decimals and Percentages)				Count up and down in tenths.			up and down in	n in				
Fraction	s (including	Decimals an	d Percenta	ges) R	Recognisin	g fractions								
EYFS	Year 1			• •	Year 3		Year 4		Year 4	Year				Year 6
	half as one of an object quantity. Recognise, quarter as o	Recognise, find and name a as one of two equal parts of object, shape or nitity. In object, shape or nitity. In opinise, find and name a ter as one of four equal so of an object, shape or			discrete se unit fraction Recognise object into digit numb	find and write fraction to of objects: unit fractions with small denominated that tenths arise from the constant of the fractions and in constant of the fractions as numbers.	ons and ators. dividing dividing mbers:	an one – unit	Recognise tha hundredths ar when dividing object by one hundred and dividing tenth ten.	rise g an	thousand to tenths	e and use Iths and relat , hundredths equivalents.		
Fraction	ns (including	Decimals an	d Percenta	ges)	Comp	aring fractions								
EYFS	Year 1	Year 2	Year 3		Year 4	Year 5				Ye	ar 6			
				and order unit fractions, and with the same denominators.		Compare and order are all multiples of				ors Coi	mpare and	order fraction	ons, includ	ling fractions >1.
Fraction	ns (including	Decimals an	d Percenta	ges)	Comp	aring decimals								
EYFS	Year 1	Year 2	Year 3	Year 4		Year 5						Year 6		
				Compare numbers with the sa				ınd com	pare numbers v	vith up to		Identify the		
_				decimal places up to two deci	<u> </u>	decimal plac						numbers giv	en to thre	e decimal places.
		Decimals an	1	Ť	Round	ling including decir	mals							
EYFS	Year 1	Year 2	Year 3	Year 4		Year 5						Year 6		
				Round decimals with one dec nearest whole number.	ımal place to		Round decimals with two decimal places to the nearest whole number and to one decimal place.		rest			ch require answers		
				nearest whole number.		whole hullib	Ci anu	to one u	e decimal place. to be ro			to be roun	be rounded to specified degrees of	



		SKIIIS IVIACII		_							accura	acy.	
Fractio	ns (includi	ing Decimal	s and Pe	ercentages)		Equ	ivalenc	e (including f	ractions, d	ecimals & percentages			
EYFS	Year 1	Year 2		Year 3	Year 4	•	Year 5				Year 6		
		Write simple fractions e.g of 6 = 3 and recognise the	. 1/2	Recognise and show, using diagrams, equivalent	Recognise	and show, using families of equivalent	Identify	, name and writ		fractions of a given fraction, as and hundredths.	Use common	factors to simplify fractions; use tiples to express fractions in the nation.	
		equivalence and 1 / 2.		fractions with small denominators.	Recognise decimal e	and write quivalents of any f tenths or	Read a 100).	nd write decima	I numbers as	fractions (e.g. 0.71 = 71 /	calculate deci	action with division and imal fraction equivalents (e.g. imple fraction (e.g. 3 / 8).	
					nunareati			ise and use thou dths and decima		relate them to tenths, s.			
					_	and write quivalents to 1 / 4 ′ 4.	relates	to "number of p tages as a fraction	nt symbol (%) and understand that per cent of parts per hundred", and write fractions, decimals and percentages, including in different contexts.				
Fractio	ns (includi	ing Decimal	s and Pe	rcentages)		Ad	dition a	and subtracti	on of fracti	ions			
EYFS	Year 1	Year 2	Year 3		Year 4 Year 5							Year 6	
			same der	subtract fractions nominator within $7 + 1 / 7 = 6 / 7$).		Add and subtract fractions with the denominator.		Add and subtra the same numb		vith the same denominator and	d multiples of	Add and subtract fractions with different denominators and mixed numbers, using the	
								from one form	to the other a	actions and improper fraction and write mathematical staten $/5 = 6/5 = 11/5$).		concept of equivalent fractions.	
Fraction	ns (includi	ing Decimal	s and Pe	ercentages)		Mu	ltiplica	tion and divis	ion of frac	tions			
EYFS	Year 1	Year 2	Year 3	Year 4	Year 5					Year 6			
					Multiply pro	pper fractions and m y materials and dia		umbers by whole numbers, Multiply simple pairs of proper fractions, writing the answer in its simples form (e.g. $1/4 \times 1/2 = 1/8$).					
							Multiply one-digit numbers with up to two decimal places by whole numbers.						
										Divide proper fractions by v	whole numbers	(e.g. 1 / 3 ÷ 2 = 1 / 6).	
Fractio	ns (includi	ing Decimal	s and Pe	ercentages)		Mult	tiplicati	on and divisi	on of decir	mals			
EYFS	Year 1	Year 2	Year 3	Year 4			Year	· 5	Year 6				



							Multiply or	ne-digit numbers w	rith up to two decimal places by	/ whole nu	imbers.	
				number by 10	t of dividing a one- or two-digit and 100, identifying the value the answer as ones, tenths hs.		Multiply ar decimal pla		by 10, 100 and 1000 where the	answers a	are up to three	
							by 10, 100	and 1000 where th	it to three decimal places and ne answers are up to three deci	mal places	5.	
								e fraction with divise e fraction (e.g. 3 /8	sion and calculate decimal fract 3).	ion equiva	ilents (e.g. 0.375)	
							Use writter	n division methods	in cases where the answer has	up to two	decimal places.	
Fraction	s (includ	ling Decimal	s and Perc	entages)	Probler	n Solving						
EYFS	Year 1	Year 2	Year 3		Year 4			Year 5			Year 6	
			Solve proble involve all o	f the above.	Solve problems involving increasing quantities, and fractions to divide q fractions where the answer is a who	uantities, including n		nit places.				
					fractions where the answer is a whole number. Solve simple measure and money problems involving fraction decimals to two decimal places.			decimal equivaler	hich require knowing percentages of 1/2,1/4,1/5,2/5, ominator of a multiple of 10 or 2	4 / 5 and		
MEASUR	EMENT				Compa	aring and Estimat	ting					
Prescho	ol 2	Reception	Year 1		Year 2	Year 3		Year 4	Year 5	Year 6		
Make compariso between of relating to length, we and capac	objects o size, eight	Order 2 or 3 items by length, height, weight or capacity. Compare length, weight and capacity	solve prace for: • lengtl [e.g. l longe tall/sl doubl • mass, heavy than, • capace [e.g. f more	describe and ctical problems as and heights ong/short, r/shorter, nort, le/half] /weight [e.g. r/light, heavier lighter than] city and volume full/empty, than, less than, half full,	Compare and order lengths, mass, volume/capacity and record the results using >, < and =.			Compare and order lengths, mass, volume/cap acity and record the results using >, < and =.	Calculate and compare the area of squares and rectangles including using standard units, square centimetres and square metres and estimate the area of irregular shapes. Estimate volume (e.g. using 1cm3 blocks to build cubes and cuboids) and capacity (e.g. using water).	compare and cube standare centime cubic me	e, estimate and evolume of cubes oids using dunits, including tre cubed and etres, and ang to other units.	



Progression of	skills M	<u>athe</u>	<u>ematics</u>							Pinary Scho
			quarter] * time [e.g. quicker, slower, earlier, later].							
Begin to describe a sequence of events, real or fictional, using words, such as 'first', 'then'	Order and sequence familiar events.		Sequence events in chronological order using language [e.g. before and after, next, first, today, yesterday, tomorrow, morning, afternoon and evening].	Compare and sequintervals of time.	uence	Compare durations of e for example to calculate time taken by particular or tasks.	e the			
						Estimate and read time increasing accuracy to t nearest minute; record compare time in terms seconds, minutes, hour o'clock; use vocabulary a.m./p.m., morning, aft noon and midnight.	the and of s and such as			
MEASUREMENT					Measur	ing and calculating				
Preschool 1			Preschool 2		Reception					
Compare sizes, weig using gesture and la 'bigger/little/smalle 'high/low', 'tall', 'he	anguage ; er',		Make comparisons between of size, length, weight and capac		Compare leng	th, weight and capacity.				
Year 1		Year	- 2		Year 3		Year 4		Year 5	Year 6
Measure and begin record the following lengths and height mass/weight capacity and vo time (hours, misseconds).	g: ghts olume	estim (m/cı (litres	se and use appropriate standa nate and measure length/heigh m); mass (kg/g); temperature (s/ml) to the nearest appropria s, scales, thermometers and m	t in any direction °C); capacity te unit, using		npare, add and subtract: n/mm); mass (kg/g); city (l/ml).	calculate measures	, compare and different s, including pounds and	Use all four operations to solve problems involving measure (e.g. length, mass, volume, money) using decimal notation including scaling.	Solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate.



Progression of skills i	<u>viatrierriatics</u>				Mary Sch
		Measure the perimeter of simple 2-D shapes.	Measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres.	Measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres.	Recognise that shapes with the same areas can have different perimeters and vice versa.
Recognise and know the value of different denominations of coins and notes.	Recognise and use symbols for pounds (£) and pence (p); combine amounts to make a particular value. Recognise and use symbols for pounds (£) and pence (p); combine amounts to make a particular value. Find different combinations of coins that equal the same amounts of money. Solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change.	Add and subtract amounts of money to give change, using both £ and p in practical contexts.			
			Find the area of rectilinear shapes by counting squares.	Calculate and compare the area of squares and rectangles including using standard units, square centimetres and square metres and estimate the area of irregular shapes recognise and use square numbers and cube numbers, and the notation for squared and cubed.	Calculate the area of parallelograms and triangles. Calculate, estimate and compare volume of cubes and cuboids using standard units, including cubic centimetres and cubic metres, and extending to other units. Recognise when it is possible to use formulae for area and volume of shapes.

MEASUREMENT			Telling the ti	me			
Preschool 2	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Begin to describe a sequence of events, real or fictional, using words, such as 'first', 'then'	Discuss 'o'clock' times at key time e.g. registration, lunchtime, snack time, tidy-up time, etc.	Tell the time to the hour and half past the hour and draw the hands on a clock face to show these times.	Tell and write the time to five minutes, including quarter past/to the hour and draw the hands on a clock face to show	Tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour clocks.	Read, write and convert time between analogue and digital 12 and 24-hour clocks		
	Make own timetable	Recognise and use language	these times. Know the number of	Estimate and read time with			
	for a day – selecting	relating to dates, including days	minutes in an hour	increasing accuracy to the nearest			



		activities and ordering them. Sing songs with time durations.	of the week, weeks, months and the number of hours in a day.			in tern and o' a.m./p	e; record and cons of seconds, not seconds, not seconds, not occasion, morning, and midnight.	ninutes, hours oulary such as	Solve proble converting fi minutes; min	ms involving rom hours to nutes to seconds; nths; weeks to	Solve problems involving converting between units		
MEASURE	FMFNT				Conve	erting						of time.	
EYFS	Year 1	Year 2	Year 3	Year 4	Conve	er tillig		Year 5			Year 6		
	Know the number of minutes in an hour and the number of hours in a day. Know the number of seconds in a minute and the number of days in each month, year and leap year. Read, wr analogue clocks. Solve profrom hou		measure (to minute Read, writ analogue c clocks. Solve prot from hour seconds; y	etween differe (e.g. kilometre e). te and convert and digital 12 blems involving rs to minutes; years to month	to metre; I	reen ur	Convert betwee metric measuremetre; centime and millimetre and millilitre). Solve problem between units Understand arbetween metrimperial units pints.	re (e.g. kilome etre and metr e; gram and kil is involving co of time.	tre and e; centimetre ogram; litre nverting ences	Use, read, write and units, converting me volume and time fro to a larger unit, and notation to up to the Solve problems invo conversion of units on notation up to three appropriate. Convert between me	easurements of lead on a smaller unit of vice versa, using of the decimal places of measure, using the decimal places were dec	ngth, mass, of measure decimal s. on and decimal there	
GEOMET	TRY: PROP	ERTIES OF SHAPES	<u>'</u>	Ident	tifying shape	es and th	eir pr	operties					
Talk about and explore 2D and 3D shapes (for example, circles, rectangles, triangles and cuboids) using informal and mathematical language: 'sides', 'corners', 'straight', 'flat', 'round'. Select shapes appropriately: flat surfaces for a building, a triangular prism for a roof, etc. Combine shapes to make new ones – an		Reception Select, rotate and manipulate shapes in order to develop spatial reasoning skills. Compose and decompose shapes so that they recognise a shape can have other shapes within it, just as numbers can.	shapes, in 2-D sh rectar (incluing square and tr 3-D sh cuboic (incluing square)	hapes [e.g. ngles ding res), circles riangles]. hapes [e.g. ids ding cubes), nids and	Year 2 Identify and desc properties of 2-D including the nur and line symmet vertical line. Identify and desc properties of 3-D including the nur edges, vertices a Identify 2-D shap the radius surfac shapes, [for exam		o shapes, mber of sides cry in a cribe the o shapes, mber of and faces. bes on the ce of 3-D	Year 3	Year 4 Identify lines of symmetry in 2-D shapes presented in different orientations.	Year 5 Identify 3-D shapes, including cubes and other cuboids, from 2-D representations.	Year 6 Recognise, des build simple 3- including making ma	ng nets. name parts iding radius, and know	



Progression of sk	ills iviatnematics									Mary Sch
				on a pyram	nid].					
GEOMETRY: PROP	ERTIES OF SHAPES	Draw	ring and cons	structing						
Preschool 1	Preschool 2	Reception	Year 1	Year 2	Year	3		Year 4	Year 5	Year 6
Climb and squeeze themselves into different types of	Select and rotate shapes to fit into a given space. Show intentionality in selecting	Make a range of constructions, including enclosures, and talk about			3-D sh	apes using	napes and make Compusing modelling simple		Draw given angles, and measure them in degrees.	Draw 2-D shapes using given dimensions and angles.
spaces. Build with a range of resources. Complete inset puzzles.	shapes for a purpose, such as cylinders to roll.	decisions they have made.			shapes	shapes in different prientations and describe them.		symmetric figure with respect to a specific line of symmetry.		Recognise, describe and build simple 3-D shapes, including making nets.
GEOMETRY: PROP	ERTIES OF SHAPES		Соі	mparing a	and classi	ifying				
Preschool 2	Reception	Year 1	Year 2		Year 3	Year 4		Year 5		Year 6
Explore characteristics of everyday objects and shapes.	Begin to use everyday terms to describe shapes. Select a particular named shape. Compose and decompose shapes so that children can recognise a shape can have other shapes within it, just as numbers can. Use mathematical language to describe shapes.		Compare and common 2-D shapes and evolpects.	and 3-D		geometr including quadrilating triangles	e and classify ic shapes, g terals and s, based on operties and	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.		Compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals, and regular polygons.
GEOMETRY: PROP	ERTIES OF SHAPES		A	Angles						
EYFS	Year 1	Year 2	Year 3			Yea	ar 4	Year	5	Year 6
			_	se angles a e or a descr	s a property iption of a	У		measu estima	angles are red in degrees: te and compare obtuse and angles.	



GEOMETRY: PO	OSITION	2. DIRECTION		Pociti	Identify right angle that two right angle turn, three make the of a turn and four a turn; identify whet greater than or less angle. Identify horizontal lines and pairs of pand parallel lines. on, direction & N	es make a half nree quarters a complete her angles are s than a right and vertical erpendicular	compare and orde	r ght	dentify: angles at a po one whole tur 360 degrees) angles at a po a straight line a turn (total 1 degrees) onther multiple	n (total int on and ½ 80	meet at a po straight line,	ngles where they pint, are on a , or are vertically d find missing
	JITION				on, an ection & N							
Preschool 2		Reception	Year 1	Year 2		Year 3	Year 4	Year	5	Year	6	
Understand positio through words alor example, "The bag under the table," — no pointing. Descri familiar route. Discuss routes and locations, using wo 'in front of' and 'be	ne – for is with be a rds like		Describe position, direction and movement, including half, quarter and three-quarter turns.	to describe p and movement in and distingu rotation as a of right angle and three-qu	n a straight line ishing between turn and in terms es for quarter, half uarter turns nd anti-clockwise).		Describe positions on a 2-D grid as coordinates in the first quadrant. Describe movements between positions as translations of a giver unit to the left/right and up/down. Plot specified points and draw sides to complete a given polygon.	repres position follow or tran the ap langua that the	fy, describe and sent the on of a shape ring a reflection aslation, using apropriate age, and know he shape has hanged.	Draw on the	and translate	on the full I four quadrants). e simple shapes plane, and reflect
					Pattern	l						
Preschool 1	Presch	nool 2		Reception		Year 1		Year 2	Year 3	Year 4	Year 5	Year 6
Notice patterns and arrange things in patterns.	Talk about and identify the patterns around them. For example, stripes on clothes, designs on rugs and wallpaper. Use informal language like 'pointy', 'spotty', 'blobs', etc. Extend and create ABAB patterns – stick, leaf, stick, leaf. Notice and correct an error in a repeating pattern.		Continue, copy and create repeating patterns.		Order and arrange combinations of mathematical objects in patterns and sequences.							



ALGEB	BRA						Equations							
YFS	Year 1 Year 2				Year 3	Year 3 Year 4					Y	Year 6		
Solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as 7 = \square – 9.			Recognise and use the inverse relationship between addition and subtraction and use this to check calculations and missing number problems.		Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction. Solve problems, including missing number problems, involving multiplication and division, including integer scaling.				-	Use the properties of rectangles to deduce related facts and find missing lengths and angles.		Express missing number problems algebraically.		
				subtraction fluently, a	l use addition and in facts to 20 nd derive and use cts up to 100.							n	ind pairs of numbers that satisfy number sentences involving two inknowns.	
	bonds an	Represent and use number bonds and related subtraction facts within 20.									numerate all possibilities of combinations of two variables.			
LGEB	BRA						Form	nulae						
YFS	Year 1		Year 2	Year	3 Year 4	Year 5					Year 6			
		Perimeter can be expressed algebraically as 2(a + b) where a and b are the dimensions in the same unit.						Use simple formulae. Recognise when it is possible to use formulae for area an						
											volume of shapes.			
LGEB	BRA	1		T			Seque	nces	<u> </u>			T.		
resch	ool 1	Preschool	2	Reception			Year 1	Year 2	Year 3	Year 4	Year 5	Year 6		
Order a short sequence of events. Begin to des sequence of real or fiction words such a 'then'		events,	Sequence events in chronolog order using language such as: before and after, next, first, to			Compare and sequence intervals of time.						Generate and describe linear number sequences.		
		words such a		yesterday, tomorrow, morning afternoon and evening.										
TATIS	STICS						Prese	nt and interpr	et			<u> </u>		
EYFS Year 1		Year 1	Ye	Year 2		Year 3	Year 4			Year 5		Year 6		



Experiment with their own symbols and marks, as well as numerals.		Interpret and construct simp pictograms, tally charts, blood diagrams and simple tables.	·	Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs.	Complete, read and interpret information in tables, including timetables.	Interpret and construct pie charts and line graphs and use these to solve problems. Calculate and interpret the mean as an average	
STATISTICS			Solve Pro	blems			
EYFS	/FS Year 1 Year 2		Year 3	Year 4	Year 5	Year 6	
		Ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity. Ask and answer questions about totalling and comparing categorical data.	Solve one-step and two-st questions using informatic presented in scaled bar ch and pictograms and tables	on and difference problems using information	Solve comparison, sum and difference problems using information presented in a line graph.	Interpret and construct pie charts and line graphs and use these to solve problems. Calculate and interpret the mean as an average.	

Ratio and Proportion

Year 6

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 the calculation of percentages [for example, of measures, and such as 15% of 360] and the use of percentages for comparison.

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.