Fleetdown Primary Academy Mathematics Curriculum Progression EYFS-KS1-KS2

Place Value

Concept	DM (Nursery)	DM (Reception)	ELG	Y1	Y2	Y3	Y4	Y5	Y6
Place Value: Count	Develop fast	Count	Number	count to and	count in steps of 2,	count from 0 in	count in	count forwards	
	recognition of up	objects,	Have a deep	across 100,	3, and 5 from 0,	multiples of 4,	multiples of 6, 7,	or backwards in	
	to 3 objects,	actions and	understanding	forwards and	and in tens from	8, 50 and 100;	9, 25 and 1000	steps of powers	
	without having to	sounds.	of number to	backwards,	any number,	find 10 or 100	count backwards	of 10 for any	
	count them		10, including	beginning with 0	forward and	more or less	through zero to	given number	
	individually.	Subitise and	the	or 1, or from any	backward	than a given	include negative	up to 1 000 000	
		look at a	composition	given number		number	numbers	count forwards	
	Recite numbers	group of	of each	8	The second			and backwards	
	past 5.	objects and	number.	Count numbers				with positive	
	past 5.	realise how		to 100 in				and negative	
	Say one	many there	Subitise	numerals; count				whole	
	number for	are without	(recognise	in multiples of				numbers,	
	each item in	counting.	quantities	twos, fives and				including	
	order:	counting.	without	tens				through zero	
	1,2,3,4,5.	link the	counting) up	Autumn 1	Autumn 1	Autumn 1	Autumn 1	Autumn 1	
	1,2,3,4,3.	number	to 5.	Spring 1	Adtumin	Autumn 3	Autumn 4	Summer 4	
	know that the	symbol	10 5.	Spring 1 Spring 3		Autumins	Autumii 4	Julillici 4	
	last number	(numeral)		Summer 4				A 1	
Place Value:	reached when	with its	-	identify and	read and write	identify,	identify,	read, write,	read, write, (order and
Represent	counting a	cardinal		represent	numbers to at	represent and	represent and	(order and	compare) numbers up
Represent	small set of	number	Numerical	numbers using	least 100 in	estimate	estimate	compare)	to 10 000 000 and
	objects tells	value.	Patterns	_	numerals and in	numbers using	numb <mark>ers u</mark> sing	numbers to at	determine the value o
	you how	value.	ratterns	objects and pictorial	words	different	different	least 1 000 000	each digit
	many there		Verbally count	·	Words			and determine	each digit
	are in total.	Compare	beyond 20,	representations	identify represent	representations	representations	the value of	
	are in total.	numbers.	recognising	read and write	identify, represent and estimate	road and write	read Roman		
	show 'finger	Hullibers.	the pattern of			read and write	numerals to 100	each digit	
	numbers' up		the counting	numbers to 100	numbers using	numbers up to		road Daman	
	to 5. Link	Count	system.	in numerals	different	1000 in	(I to C) and know	read Roman	
			system.	wood ond wwite	representations,	numerals and in	that over time,	numerals to	
	numerals and amounts: for	beyond ten.		read and write	including the	words	the numeral	1000 (M) and	
				numbers from 1	number line		system changed	recognise years	
	example,			to 20 in numerals			to include the	written in	
	showing the			and words			concept of zero	Roman	
	right number				A 1 4		and place value	numerals	
	of objects to			Autumn 1	Autumn 1	Autumn 1	Autumn 1	Autumn 1	Autumn 1
	match the			Spring 1		10111			
	numeral, up			Spring 3					
	to 5.			Summer 4	100 000 1			, , ,	
Place Value: Use				given a number,	recognise the	recognise the	find 1000 more	(read, write)	(read, write), order
and Compare	experiment			identify one more	place value of each	place value of	or less than a	order and	and compare numbers
	with our own			and one less	digit in a two-digit	each digit in a	given number	compare	up to 10 000 000 and

	symbols and marks as well as numerals. Solve real world mathematical problems with numbers up to 5. Compare quantities using				number (tens, ones) • compare and order numbers from 0 up to 100; use and = signs	three-digit number (hundreds, tens, ones) • compare and order numbers up to 1000	recognise the place value of each digit in a four-digit number (thousands, hundreds, tens, and ones) order and compare numbers beyond 1000	numbers to at least 1 000 000 and determine the value of each digit	determine the value of each digit
	language: 'more than', 'fewer than'.			Autumn 1 Spring 1 Spring 3 Summer 4	Autumn 1	Autumn 1	Autumn 1	Autumn 1	Autumn 1
Place Value: Problems/Rounding					use place value and number facts to solve problems	solve number problems and Ppractical problems involving these ideas	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	interpret negative numbers in context round any number up to 1 000 000 to the nearest 10, 100, 1000, 10 000 and 100 000 solve number problems and practical problems that involve all of the above	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
				Autumn 1	Autumn 1 on and Subtraction	Autumn 1	Autumn 1	Autumn 1	Autumn 1
Concept	DM (Nursery)	DM	ELG	Y1	Y2	Y3	Y4	Y5	Y6
		(Reception)				1011			
Addition and Subtraction: Calculations		Understand the 'one more than/one less than' relationship between	Automatically recall (without reference to rhymes,	add and subtract one-digit and two digit numbers to 20, including zero	add and subtract numbers using concrete objects, pictorial representations, and mentally, including:	add and subtract numbers mentally, including:	add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and	add and subtract whole numbers with more than 4 digits, including using formal written	perform mental calculations, including with mixed operations and large numbers use their knowledge of the order of operations to carry out

	consecutive numbers.	counting or other aids)	1000	➤ a two-digit number and ones	➤ a three-digit number and	subtraction where	methods (columnar	calculations involving the four operations
	Explore the	number bonds up to 5		➤ a two-digit number and tens	ones ➤ a three-digit	appropriate	addition and subtraction)	
	composition	(including		➤ two two-digit	number and		add and	
	of numbers	subtraction facts) and		numbers	tens		subtract numbers	
	to 10	some number		➤ adding three	➤ a three-digit		mentally with	
	Automatically	bonds to 10,		one	number and		increasingly	
	recall	including			hundreds		large numbers	
	number	double facts		12.5	add and		iarge riumbers	
	bonds for				subtract numbers with			
	numbers 0–				up to three			
	10.				digits, using			
		Numerical			formal written			
		Patterns			methods of			
		Compare			columnar			
		quantities up			addition and			
		to 10 in			subtraction			
	4	different contexts,	Autumn 2 Spring 2	Autumn 2	Autumn 2	Autumn 2	Autumn 2	Autumn 2
Addition and		recognising	solve one-step	solve problems	solve problems,	solve addition	solve addition	solve addition and
Subtraction:	/ ·	when one	problems that	with addition and	including	and subtraction	and subtraction	subtraction multiste
Problems	1	quantity is	involve addition	subtraction:	missing number	twostep	multistep	problems in context
		greater than,	and subtraction,	➤ using concrete	problems, using	probl <mark>ems</mark> in	problems in	deciding which
	the state of the s	less than or	using concrete	objects and	number facts,	contexts,	contexts,	operations and
	1000	the same as	objects and	pictorial	place value, and	deciding which	deciding which	methods to use and
		the other	pictorial	representations,	more complex	o <mark>perations and</mark>	operations and	why
	-	quantity	representations,	including those	addition and	methods to use	methods to use	
			and missing	involving numbers,	subtraction	and why	and why	
			number problems	quantities and			and a contribution	
	1		such as <mark>7 = • − 9</mark>	measures		Contraction	solve problems	
	. (-2			➤ applying their		100	involving	
				increasing		-5/2	addition, subtraction,	
				knowledge of		7.00	multiplication	
				mental and	0.0		and division	
				written methods			and a	
		7. 1.			100		combination of	
		- 20	O		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		these, including	
			- P2	4.4			understanding	
			-101/10	no	-		the meaning of	
			7. U				the equals sign	
			Autumn 2 Spring 2	Autumn 2	Autumn 2	Autumn 2	Autumn 2	Autumn 2
	1		Shimp 5	Multiplication				

Concept	DM (Nursery)	DM (Reception)	ELG	Y1	Y2	Y3	Y4	Y5	Y 6
Multiplication and			Numerical	-	recall and use	recall and use	recall	identify	identify common
Division: Recall/Use			Patterns		multiplication and	multiplication	multiplication	multiples and	factors, common
			Explore and		division facts for	and division	and division facts	factors,	multiples and prime
			represent		the 2, 5 and 10	facts for the 3, 4	for multiplication	including	numbers
			patterns		multiplication	and 8	tables up to 12 ×	finding all	use estimation to
			within		tables, including	multiplication	12	factor pairs of a	check answers to
			numbers up		recognising odd	tables	use place value,	number, and	calculations and
			to 10,		and even numbers		known and	common	determine, in the
		- 4	including				derived facts to	factors of two	context of a problem
			evens and		show that		multiply and	numbers	an appropriate degre
			odds, double		multiplication of	1.77	divid <mark>e me</mark> ntally,	know and use	of accuracy
			facts and how		two numbers can		including:	the vocabulary	
			quantities can		be done in any		multipl <mark>ying</mark> by 0	of prime	
			be distributed		order		and 1; dividing	numbers,	
			equally.		(commutative) and		by 1; m <mark>ultipl</mark> ying	prime factors	
					division of one		together three	and composite	
					number by		numbers	(nonprime)	
					another cannot			numbers	
							recognise and	0.1	
							use factor pairs	establish	
		~					and	whether a	
		A					commutativity in	number up to	
							mental	100 is prime	
							calculations	and recall	
								prime numbers	
								up to 19 •	
							72.1	recognise and	
								use square	
								numbers and	
								cube numbers,	
		F 100%					100	and the	
							17.5	notation for	
		7.7	9.				AM. /	squared (2) and	
_			The state of the s					cubed (³)	
			1		Spring 2	Autumn 3	Autumn 4	Autumn 3	Autumn 2
Multiplication and					calculate	Spring 1 write and	Spring 1 multiply two-	multiply	multiply multi-digit
Division:					mathematical	calculate	digit and three-	numbers up to	numbers up to 4 digi
Calculations					statements for	mathematical	digit numbers by	4 digits by a	by a two-digit whole
					multiplication and	statements for	a one-digit	one- or two-	number using the
					division within the	multiplication	number using	digit number	formal written metho
					multiplication	and division	formal written	using a formal	of long multiplication
					tables and write	using the	layout	written	or long maniphedior
					them using the	multiplication	14,040	method,	divide numbers up to
					multiplication (×),	tables that they		including long	digits by a two-digit
					manipheation (^),	tables that they		merading long	aigits by a two-aigit

		division (÷) and equals (=) signs	know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods		multiplication for twodigit numbers multiply and divide numbers mentally drawing upon known facts	whole number using the formal written method of long division, and interpret remainders as whole number remainders, fractions, or by rounding, as appropriate for the context
					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 multiply and divide whole numbers and those involving decimals by 10, 100 and 1000	divide numbers up to 4 digits by a two-digit number using the formal written method of short division where appropriate, interpreting remainders according to the context perform mental calculations, including with mixed operations and large numbers
		Spring 2	Autumn 3 Spring 1	Spring 1	Autumn 3 Spring 1	Autumn 2
Multiplication and Division: Problems	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	solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts	solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which n objects	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	solve problems involving multiplication and division including using their knowledge of factors and multiples, squares and cubes solve problems involving multiplication	solve problems involving addition, subtraction, multiplication and division

						are connected to m objects	connected to m objects	and division, including scaling by simple fractions and problems involving simple rates	
				Summer 1	Spring 2	Spring 1	Spring 1	Autumn 3 Spring 1	Autumn 2
Multiplication and Division: Combined								solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign	use their knowledge of the order of operations to carry out calculations involving the four operations
					Frantiana Dasimala	and Davasatassa		Spring 1	Autumn 2
	DM (Nursery)	DM	ELG	Y1	Fractions, Decimals	Y3	Y4	Y5	Y6
	Divi (ival sery)	(Reception)	220	12	12	13		15	10
Fractions: Recognise and Write		LOWN'S		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	recognise, find, name and write fractions $\frac{1}{3}$, $\frac{1}{4}$, $\frac{2}{4}$ and $\frac{3}{4}$ of a length, shape, set of objects or quantity	count up and down in tenths; recognise that tenths arise from dividing an object into 10 equal parts and in dividing one-digit numbers or quantities by 10 recognise, find and write fractions of a discrete set of objects: unit fractions and nonunit fractions with	count up and down in hundredths; recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten.	identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements > 1	

			small denominators recognise and use fractions as numbers: unit fractions and nonunit fractions with small denominators		as a mixed number [for example, $\frac{2}{5} + \frac{4}{5} = \frac{6}{5} = 1\frac{1}{5}$]	
	Summer 2	Summer 1	Spring 3	Spring 4 Summer 1	Autumn 4	
Fractions: Compare		Recognise the equivalence of $\frac{2}{4}$ and $\frac{1}{2}$	recognise and show, using diagrams, equivalent fractions with small denominators compare and order unit fractions, and fractions with	recognise and show, using diagrams, families of common equivalent fractions	compare and order fractions whose denominators are all multiples of the same number	use common factors to simplify fractions; use common multiples to express fractions in the same denomination compare and order fractions, including fractions > 1
			the same denominators		-3	
Fractions: Calculations		Summer 1 write simple fractions for example, $\frac{1}{2}$ of 6 = 3	Spring 3 add and subtract fractions with the same denominator within one whole [for example, $\frac{5}{7} + \frac{1}{7} = \frac{6}{7}$]	Spring 3 add and subtract fractions with the same denominator	Autumn 4 add and subtract fractions with the same denominator and denominators that are multiples of the same number multiply proper fractions and mixed numbers by whole numbers, supported by materials and	Autumn 3 add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions multiply simple pairs of proper fractions, writing the answer in its simplest form [for example, $\frac{1}{4} \times \frac{1}{2} = \frac{1}{8}$] divide proper fractions by whole numbers [for example $\frac{1}{3} \div 2 = \frac{1}{6}$]

Fractions: Solve Problems	solve problems that involve all the above increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non- unit fractions where the answer is a whole number Spring 3 solve problems involving increasingly harder fractions to calculate quantities, including non- unit fractions where the answer is a whole number	
Decimals: Recognise, Write and Compare	recognise and write decimal equivalents of any number of tenths or hundredths recognise and write decimal equivalents to 1/100 1/10	
	Spring 4 Spring 3	Spring 3

							Summer 1	Summer 3	
Fractions, Decimals and Percentages							solve simple measure and money problems involving fractions and decimals to two decimal places	recognise the per cent symbol (%) and understand that per cent relates to 'number of parts per hundred', and write percentages as a fraction with denominator 100, and as a decimal	associate a fraction with division and calculate decimal fraction equivalents [for example, 0.375] for a simple fraction [for example, $\frac{3}{8}$] recall and use equivalences between simple fractions, decimals and percentages, including in different contexts
								solve problems which require knowing percentage and decimal equivalents of $\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{5}$, $\frac{2}{5}$, $\frac{4}{5}$ and those fractions with a denominator of a multiple of 10 or 25	
		2					Spring 3 Spring 4 Summer 1	Spring 3	Spring 3 Spring 4
		100		Ratio and	Proportion, Algebra		40.00		
	DM (Nursery)	DM (Reception)	ELG	Y1	Y2	Y3	Y4	Y5	Y 6
Ratio and Proportion	Talk about and identify the patterns around them. For example: stripes on clothes, designs on rugs and wallpaper. Use informal	continue, copy and create repeating patterns.	Cir		ne !				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/use of

Alachus	patterns – stick, leaf, stick, leaf. Notice and correct an error in a repeating pattern.					colus malilions			or can be found solve problems involving unequal sharing and grouping using knowledge of fractions and multiples
Algebra				solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as $7 = 2 - 9$	recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems	solve problems, including missing number problems			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
			Ch	until Y6, algebraic th	mal algebraic notation is hinking starts much earlin'r objectives from Y1/2/	er as exemplified by 3			Spring 2
	DM (Nursery)	DM	ELG	Y1	Measu Y2	rement Y3	Y4	Y5	Y6
Using Measures	Make comparisons between	(Reception) Compare length, weight and		compare, describe and solve practical	choose and use appropriate standard units to	measure, compare, add and subtract:	Convert between different units of measure [for	convert between different units	solve problems involving the calculation and

	relating to	➤ lengths and	measure	(m/cm/mm);	kilometre to	of metric	measure, using
	size, length,	heights	length/height in	mass (kg/g);	metre, hour to	measure	decimal notation up to
	weight and	➤ mass/weight	any direction	volume/capacity	minute]		3 d.p. where
	capacity.		(m/cm); mass	(I/mI)	······································	understand and	appropriate
	capacity.	> capacity and	(kg/g);	(1) 1111)	estimate,	use	арргоргисс
		volume	temperature (°C);		compare and		use, read, write and
		➤ time			·	approximate	
			capacity (litres/ml)		calculate	equivalences	convert between
		measure and	to the nearest		different	between metric	standard units,
		begin to record	appropriate unit,		measures	units and	converting
		the following:	using rulers,			common	measurements of
		➤ lengths and	scales,			imperial units	length, mass, volume
		heights	thermometers and			such as inches,	and time from a
		➤ mass/weight	measuring vessels	1100		pounds and	smaller unit of
						pints	measure to a larger
		> capacity and	compare and				unit, and vice versa,
		volume	order lengths,			use all four	using decimal notation
		➤ time (hours,	mass,			operations to	to up to 3 d.p.
		minutes, seconds)	volume/capacity			solve problems	
			and record the			involving	convert between miles
			results using >, <			measure [for	and kilometres
			and =			example,	
	and the same of th		ana			length, mass,	
	AND DESCRIPTION OF THE PERSON NAMED IN COLUMN TWO IN COLUM				- 0	volume,	
						money] using	
						_	
						decimal	
	The state of the s					notation,	
						including	
			6 : 0	6 : 2	6 1 2	scaling	A
	-	Spring 4	Spring 3	Spring 2	Spring 2	Spring 4	Autumn 5
		Spring 5	Spring 4	Spring 4	Summer 3	Summer 5	
		Summer 6				Summer 6	
Money		recognise and	recognise and use	add and	estimate,	use all four	
		know the value of	symbols for	subtract	compare and	operations to	
		different	pounds (£) and	amounts of	calculate	solve problems	
		denominations of	pence (p);	money to give	different	involving	
		coins and notes	combine amounts	change, using	measures,	measure [for	
			to make a	both £ and p in	including money	example,	
		A-1	particular value •	practical	in pounds and	money]	
			find different	contexts	pence		
		The state of the s	combinations of	CONTECACO	peee		
		The second second	coins that equal				
		To 1 7 1 10 10 10		A CONTRACTOR OF THE PARTY OF TH			
			the same amounts				
		100	of money				
			solve simple				
	1		problems in a				
			practical context			1	

			involving addition				
			and subtraction of	the same of the sa			
		-	money of the				
			same unit,				
		1000	including giving				
			change				
		Summer 5	Spring 1	Summer 2	Summer 2	Summer 3	
Time	Begin to	sequence events	compare and	tell and write	read, write and	solve problems	use, read, write and
	describe a	in chronological	sequence intervals	the time from	convert time	involving	convert between
	sequence of	order using	of time	an analogue	between	converting	standard units,
	events, real or	language [for		clock, including	analogue and	between units	converting
	fictional,	example, before	tell and write the	using Roman	digital 12- and	of time	measurements of tim
	using words such as 'first', 'then'	and after, next,	time to five	numerals from I	24-hour clocks		from a smaller unit o
		first, today,	minutes, including	to XII, and 12-	24 Hour clocks		measure to a larger
		yesterday,	quarter past/to	hour and 24-	solve problems		unit, and vice versa
		tomorrow,	the hour and draw	hour clocks	involving		unit, and vice versa
				HOUL CIOCKS	_		
		morning,	the hands on a		converting from		
		afternoon and	clock face to show	estimate and	hours to		
		evening]	these times	read time with	minutes;		
				increasing	minutes to		
		recognise and use	know the number	accuracy to the	seconds; years to		
		language relating	of minutes in an	nearest minute;	months; weeks		
	(T)	to dates,	hour and the	record and	to days		
		including days of	number of hours	compare time in		The same of the sa	
		the week, weeks,	in a day	terms of			
	1.3	months and years		seconds,			
				minutes and			
		tell the time to		hours; use			
		the hour and half		vocabulary such			
		past the hour and		as o'clock,			
		draw the hands		a.m./p.m.,			
		on a clock face to		morning,			
		show these times		afternoon, noon			
	(0.0)			and midnight			
		The second second		know the			
				number of			
				seconds in a			
		The state of the s		minute and the			
		2000		number of days			
		The second second	A STATE OF THE STA	in each month,			
		1000	100	year and leap			
		7.0	116 .	year			
				compare			
				durations of			
				events [for			

					example to calculate the time taken by particular events or tasks]			
			Summer 6	Summer 2	Summer 3	Summer 3	Summer 5	Autumn 5
Perimeter, Area and Volume					measure the perimeter of simple 2-D shapes	measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres find the area of rectilinear shapes by counting squares	measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres calculate and compare the area of rectangles (including squares) and including using standard units, square centimetres (cm²) and square metres (m²) and estimate the area of irregular shapes estimate volume [for example, using blocks to build cuboids] and capacity [for example, using water]	recognise that shape 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 a compare volume of cubes and cuboids using standard units including cubic centimetres (cm³) a cubic metres (m³), a extending to other units
			-1000	100 1	Spring 2	Autumn 3	Spring 4	Spring 5
						Spring 2	Summer 6	
	 Ι	EL C	V4		ometry	VA.	VE	V.C
		ELG	Y1	Y2	Y3	Y4	Y5	Y6

2-D Shapes		select, rotate	recognise and	identify and	draw 2-D shapes	compare and	distinguish	draw 2-D shapes using
	Talk about	and	name common 2-	describe the		classify	between	given dimensions and
	and explore	manipulate	D shapes [for	properties of 2-D		geometric	regular and	angles
	2D and 3D	shapes in	example,	shapes, including		shapes, including	irregular	
	shapes (for	order to	rectangles	the number of		quadrilaterals	polygons based	
	example,	develop	(including	sides and line	700	and triangles,	on reasoning	compare and classify
	circles,	spatial	squares), circles	symmetry in a		based on their	about equal	geometric shapes
	rectangles,	reasoning	and triangles]	vertical line		properties and	sides and	based on their
	triangles and	skills.				sizes	angles.	properties and sizes
	cuboids) using			identify 2-D shapes				
	informal and	Compose and		on the surface of		identify lines of	use the	illustrate and name
	mathematical	decompose		3-D shapes, [for		symmetry in 2-D	properties of	parts of circles,
	language:	shapes to		example, a circle		shapes	rectangles to	including radius,
	'sides',	recognise		on a cylinder and a		presented in	deduce related	diameter and
	'corners',	shapes can		triangle on a		different	facts and find	circumference and
	'straight',	have other		pyramid]		orientations	missing lengths	know that the
	'flat', 'round'.	shapes within		1,7			and angles	diameter is twice the
	,	in it, just like		compare and sort				radius
		numbers can.		common 2-D				
	Combine			shapes and				
	shapes to			everyday objects				
	make new	_	Autumn 3	Autumn 3	Summer 4	Summer 4	Summer 1	Summer 1
3-D Shapes	ones – an		recognise and	recognise and	make 3-D		identify 3-D	recognise, describe
	arch, a bigger	7	name common 3-	name common 3-	shapes using		shapes,	and build simple 3-D
	triangle etc.		D shapes [for	D shapes [for	modelling		including cubes	shapes, including
			example, cuboids	example, cuboids	materials;		and other	making nets
	Understand		(including cubes),	(including cubes),	recognise 3-D		cuboids, from	maning nets
	position		pyramids and	pyramids and	shapes in		2-D	
	through	The second	spheres]	spheres]	different	40.0	representations	
	words alone –	- A	Sprici es ₁	Spricies	orientations and		representations	
	e.g. the bag is			compare and sort	describe them			
	under the			common 3-D	describe them			
	table with no	F-1		shapes and		Carrie		
	pointing.	153		everyday objects				
	pomemg.	100	Autumn 3	Autumn 3	Summer 4	-177	Summer 1	Summer 1
Angles and Lines		4 4	7 tatanii 10	71010111110	recognise angles	identify acute	know angles	find unknown angles in
	Describe a				as a property of	and obtuse	are measured	any triangles,
	familiar route				shape or a	angles and	in degrees:	quadrilaterals, and
			71		description of a	compare and	estimate and	regular polygons
	Discuss routes		Service .		turn	order angles up	compare acute,	
	and locations,		The second second			to two right	obtuse and	recognise angles
	using words		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	10.00	identify right	angles by size	reflex angles	where they meet at a
	like 'in front			F 1 1 2 4	angles,	angles 27 size	remex ungles	point, are on a straight
	of' and			1 1 1	recognise that	identify lines of	draw given	line, or are vertically
	'behind'.				two right angles	symmetry in 2-D	angles, and	opposite, and find
					make a half-	shapes	measure them	missing angles
					turn, three	presented in	in degrees	ווווסטוווא מוואוכט
					turn, tillee	presenteu III	iii uegi ees	

	Select shapes appropriately; flat surfaces for building, a triangular prism for a roof etc.					make three quarters of a turn and four a complete turn; identify whether angles are greater than or less than a right angle identify horizontal and vertical lines and pairs of perpendicular and parallel lines	different orientations complete a simple symmetric figure with respect to a specific line of symmetry	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°	
						Summer 4	Summer 4	Summer 2	Summer 1
Position and Direction				describe position, direction and movement, including whole, half, quarter and three-quarter turns	order and arrange combinations of mathematical objects in patterns and sequences use mathematical vocabulary to describe position, direction and movement, including movement in a straight line and distinguishing between rotation as a turn and in terms of right angles for quarter, half and three-quarter turns (clockwise and		describe positions on a 2- D grid as coordinates in the first quadrant describe movements between positions as translations of a given unit to the left/right and up/down plot specified points and draw sides to complete a given polygon	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	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
				Summer 3	anticlockwise) Summer 4		Summer 6	Summer 2	Summer 2
				Sailliller 5	Statistics		Jannine 0	Julillici Z	Jannine Z
	DM (Nursery)	DM (Reception)	ELG	Y1	Y2	Y3	Y4	Y5	Y6
Present and Interpret Data					interpret and construct simple	interpret and present data	interpret and present discrete	complete, read and interpret	interpret and construct pie charts

		pictograms, tally charts, block diagrams and simple tables	using bar charts, pictograms and tables	and continuous data using appropriate graphical methods, including bar charts and time graphs	information in tables, including timetables	and line graphs and use these to solve problems
Solve Statistic Problems		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-step questions [for example, 'How many more?' and 'How many fewer?'] using information presented in scaled bar charts and pictograms and tables	solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs	solve comparison, sum and difference problems using information presented in a line graph	calculate and interpret the mean as an average

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