

Porters Grange Primary

Mathematics Learning Sequence

		Nursery		Reception		Year 1		Year 2		Year 3		Year 4		Year 5		Year 6
Place Value		Range 1:	A	Compare	<u>(</u> Wi	<u>thin 10)</u>	\checkmark	Numbers to 20	۶	Represent	A	Represent	٨	Roman	\checkmark	Numbers to
	\blacktriangleright	React to change		amounts	A	Sorting objects	\mathbf{A}	Count objects to		numbers to		numbers to		numerals to		1,000,000
Number		of amount when	Â	Find 1, 2 and 3	4	Counting		100 by making	~	100	~	1,000	4	1,000	Â	Numbers to
Number		those amounts	2	Subitise 1, 2	Ν	Objects	Ν	10's Recoming tons	>	Partition	4	Partition	~	Numbers to	Ν	10,000,000
		are significant	Ν	ana 3 Boprocont 1-2		Counting		Recognise tens		numbers to		numbers to	1	10,000 Numberste		Reda ana
		(more than double)		Represent 1, 2		larger group	Δ	una ones		100 Number line te		1,000 Numberline to		100,000		write
		Bange 2:	4	unu s Composition of	4	Representing	-	use a place		100		1 000	Δ	Numbers to		
	A	May be aware	-	1 2 and 3		ohiects	4	Partition	2	Hundreds	A	1,000 Thousands	-		A	10,000,000 Powers of 10
		of number	A	Find 4 and 5	\mathbf{A}	Recoanise		numbers to 100	Á	Represent	Â	Represent		Read and write	Â	Number line
		names through	À	Subitise 4 and	,	numbers as	\mathbf{A}	Write numbers	ŕ	numbers to		Numbers to	-	numbers to	ŕ	to 10.000.000
		their enjoyment		5		words		to 100 in words		1,000		10,000		1,000,000	\wedge	Compare and
		ofaction	\checkmark	Represent 4	\checkmark	Count on from	\checkmark	Flexibly partition	\triangleright	Partition	\mathbf{A}	Partition	\triangleright	Powers of 10		, order any
		rhymes and		and 5		any number		numbers to 100		numbers to		numbers to	\triangleright	10/100/1,000/		integers
		songs that	\checkmark	Composition of	\checkmark	1 more	A	Write numbers		1,000		10,000		10,000/	\checkmark	Round any
		relate to		4 and 5	\wedge	Count		to 100 in	\triangleright	Flexible	\mathbf{A}	Flexible		100,000 more		integer
		numbers	\checkmark	Composition of		backwards		expanded form		partitioning		portioning of		or less	\checkmark	Negative
	\blacktriangleright	Looks for things		4 and 5		within 10	\checkmark	10's on the		numbers to		numbers to	\blacktriangleright	Partition		numbers
		which have	\checkmark	Introduce zero	\wedge	1 less		number line to		1,000		10,000		numbers to		
		moved out of	A	Find 0 to 5	\wedge	Compare		100		Hundreds, tens	\mathbf{A}	Find 1, 10, 100		1,000,000		
		sight	A	Subitise 0 to 5		groups by	\wedge	10's and 1's on a		and ones		and 1,000 more		Number line to		
		Range 3:	4	Represent 0 to		matching		number line to		Find 1, 10 or		or less		1,000,000		
	>	Comparison	N	5	4	Fewer, more,		100		100 more or	Å	Number line to		Compare and		
	>	Responds to	~	Composition	N	same	4	Estimate	~	less	N	10,000 Estimate en a		order numbers		
		words like lots		Conceptual cubiticing to F		Less than,		numbers on a		Number line to		Estimate on a	1	to 100,000		
	Δ	01 more When counting	Δ	Subilising to 5		greater than,	Δ	number nne		1,000 Estimate on a		10 000		order numbers		
	-	- save some	Â	Represent 6 7	4	Compare	Â	Compare	-	number line to	Α	10,000 Compare		to 1 000 000		
		counting words	-	and 8		numbers		numbers		1 000		numbers to		Round to the		
		May engage in	A	Composition of	A	Order objects	A	Order objects	\triangleright	Compare		10 000		nearest 10		
		counting like	,	6. 7 and 8	<i>,</i>	and numbers		and numbers	,	numbers to	\mathbf{A}	Order numbers		100 or 1.000		
		behaviour	A	Make pairs	A	The number	A	Count in 2's, 5's		1,000		to 10,000	\triangleright	Round within		
		(making sounds		(odd and even)		line		and 10's	\succ	Order numbers		Roman numerals		100,000		
		and pointing or	\checkmark	Find 9 and 10	<u>(W</u> i	thin 20)	\checkmark	Count in 3's		to 1,000	\checkmark	Round to the	\triangleright	Round within		
		saying some	\checkmark	Compare	A	Count within			\succ	Count in 50's		nearest 10		1,000,000		
				numbers to 10		20										

	numbers in	\checkmark	Represent 9	\triangleright	Understand 10		A	Round to the	
	sequence		and 10	\triangleright	Understand			nearest 100	
\triangleright	Cardinality	\checkmark	Conceptual		11, 12 and 13		\mathbf{A}	Round to the	
\triangleright	, Uses number		, subitising to	\triangleright	Understand			nearest 1,000	
	words like 'one'		10		14. 15 and 16		A	Round to the	
	or 'two' and	A	Composition to	\triangleright	Understand			nearest 10, 100	
	sometimes		10		17. 18 and 19			or 1.000	
	responds	A	Bonds to 10 (2	\triangleright	Understand 20			- ,	
	accurately when		parts)	\triangleright	1 more and 1				
	asked to aive	$ \land $	Make		less				
	one or two		arranaements	\triangleright	The number				
	thinas.		of 10		line to 20				
	Range 4:	\mathbf{A}	Bonds to 10 (3	\triangleright	Estimate on a				
\triangleright	Comparison		parts)		number line to				
>	Beain to	A	Explore even		20				
, ,	compare and	ŕ	and odd	\triangleright	Compare				
	recognise	A	Build numbers		numbers to 20				
	chanaes in	,	beyond 10 (10-	\triangleright	Order numbers				
	numbers of		13)	,	to 20				
	things using	A	_ontinue	(Wi	thin 50)				
	words like	,	patterns	>	Count from 20				
	more. lots or		beyond 10 (10-	,	to 50				
	'same'		13)	\triangleright	20 30 40 and				
\triangleright	Counting	A	Build numbers	,	50				
>	Beains to say	ŕ	beyond 10/14-	\triangleright	Count by				
	numbers in		20)		makina arouns				
	order, some of	\mathbf{A}	Continue		of tens				
	which are in the		patterns	≻	Groups of tens				
	riaht order		bevond 10		and ones				
	(ordinality)		(14–20)	≻	Partition into				
\triangleright	Cardinality (how	A	Verbal		tens and ones				
	many?)		countina	≻	The number				
\triangleright	In everyday		bevond 20		line to 50				
	situations. takes	A	, Verbal	\triangleright	Estimate on a				
	or aives two or		countina		number line to				
	three objects		patterns		50				
	from a group		,	\triangleright	1 more, 1 less				
\triangleright	Beginning to			(Wi	thin 100)				
	notice numerals			\triangleright	Count from 50				
	(number				to 100				
	symbols)			\triangleright	Tens to 100				
\triangleright	Beginning to			\triangleright	Partition into				
	count on their				tens and ones				
	fingers			\triangleright	The number				
					line to 100				
				\triangleright	1 more, 1 less				

			Compare					
			numbers with					
			the same					
			number of tens					
			Compare any					
			two numbers					
Addition and	Range 3:	1 more	<u>(Within 10)</u>	Bonds to 10	Apply number	Add and	🕨 Mental	Add and
Subtraction	Uses number	🕨 1 less	Introduce	Fact families –	bonds within	subtract 1's,	strategies	subtract
Subtraction	words like 'on	ne' 🕨 Double to 8	parts and	addition and	10	10's, 100's and	Add whole	integers
	or 'two' and	(find a double)	wholes	subtraction	Add and	1,000's	numbers with	Solve multi-
Number	sometimes	Double to 8	Part-whole	bonds within 20	subtract 1's	Add up to two 4-	more than four	step problems
	responds	(make a	model	Related facts	Add and	digit numbers –	digits	Oder of
	accuratelv wh	nen double)	Write number	Bonds to 100	subtract 10's	no exchange	Subtract whole	operations
	asked to aive	Doubles to 10	sentences	(tens)	Add and	Add two 4-digit	numbers with	🕨 Mental
	one or two	(find a double)	Fact families –	Add and	subtract 100's	numbers – one	more than four	calculations
	things	Doubles to 10	addition facts	subtract 1's	Spot the	exchange	digits	and
	 Pasponds to 	(make a	Number bonds	Add by making	pattern	Add two 4-digit	Round to	estimation
	words like fot	double)	within 10	10	Add 1's across	numbers – more	check answers	Reason for
	or 'more'	Add more	Systematic	Add three 1-digit	a 10	than one	Inverse	known facts
	Range 4	How many did	number bonds	numbers	Add 10's	exchange	operations	
	Comparison	Tadd?	within 10	Add to the next	across a 100	Subtract two 4-	(addition and	
	 Beain to 	Iake away	Number bonds		Маке	digit numbers –	subtraction)	
	compare and	How many ala		Add across a 10	connections	no exchange	> Multi-step	
	recoanise	Ttake away?	Addition – Add	Subtract across	Add two	SUDTRACT TWO 4-	addition and	
	chanaes in		together	10 Cubtra at frame a	numbers (no	algit numbers –	subtraction	
	numbers of		Addition – Add	Subtract from a	exchange)	One exchange	problems	
	things, using		More Addition	LU Subtract a 1	Subtruct two	Subtruct two 4- digit numbers	Compute	
	words like		Addition problems	digit number	evchange)	more than one	Eind missing	
	more, lots or		 Find a part 	from a 2-diait	Add two	exchange	numbers	
	'same'		 Subtraction – 	number (across	numbers	 Efficient 	nambers	
	Counting		Find a part	a 10)	(across a 10)	subtraction		
	Begins to say		Fact families –	10 more, 10 less	Add two	Estimate		
	numbers in		the eight facts	Add and	numbers	answers		
	order, some o	of	Subtraction –	subtract 10's	(across a 100)	Checking		
	which are in t	he	take	Add 2-digit	Subtract two	strategies		
	right order		away/cross	numbers (not	numbers			
	(ordinality)		out – how	across a ten)	(across a 10)			
	 Cardinality (here) 	ow	many left?	Add 2-digit	Subtract two			
	many?)		Subtraction –	numbers (across	numbers			
	In everyday	kaa	take away –	a ten)	(across a 100)			
	situations, tak	kes	how many	Subtract 2-digit	Add 2-digit			
	or gives two c)/	left?	numbers (not	and 3-digit			
	from a group		Subtraction on	across a ten)	numbers			
	Ji orri a group		a number line	Subtract 2-digit	Subtract a 2-			
	 Beginning to notice numero 	alc	Add or	numbers (across	digit number			
	noucenumero	uis	subtract 1 or 2	a ten)				

	(number symbols)	Image: Within 20 Image: Add by counting on within 20 Image: Add ones using number bonds Image: Find and make Image: Find and make number Image: Find and make number Image: Find and make	 Mixed addition and subtraction Compare number sentences Missing number problems 	from a 3-digit number Complements to 100 Estimate answers Inverse operations Make decisions			
Multiplication and Division		 Make pairs Count in 2s (odd and even) Count in 10s Count in 5a 	Recognise equal groups	 Multiplication – equal groups 	 Multiples of 3 Multiply and divide two 6 	 Multiples Common 	Common factors
Number		Image: Count in 5s Image: Count in 5s (find a double) Image: Count in 5s Image: Count in 5s Image: Count in 5s	groups	 Ose arrays Multiples of 2 Multiples of 5 	6 times-table and division	Factors → Common	 Common multiples Rules of
Wannber		(make a double) Add equal groups	groups Introduce the 	and 10 Sharing and	facts → Multiply and divide two 0	factors Prime numbers 	divisibility Primes to 100
		groups Make doubles	symbol	groupingMultiply by 3	 aivide by 9 A times-table 	Square numbers	Square and cube numbers
		 ➢ Doubles to 10 ➢ Make equal (find a double) groups − 	 Multiplication sentences 	 Divide by 3 The 3-times 	and division facts	 Cube numbers Multiply by 10, 	Multiply up to a 4-digit
		Doubles to 10 grouping (make a Make equal	 Use arrays Make equal 	table Multiply by 4	The 3, 6 and 9 times tables	100 and 1,000	number by a 2-digit
		double) groups -	groups –	Divide by 4	 Multiply and 	100 and 1,000	number
		Explore even sharing and odd	grouping Make equal	The 4-times table	divide by 7 ➢ 7 times-table	Multiples of 10, 100 and	Solve problems with
		Explore	groups-sharing	 Multiply by 8 Divide by 8 	and division facts	1,000	multiplication
		 Sharing 	table	The 8-times	 11 times-table 	a 4-digit	 Division using
		Explore arouping	 Divide by 2 Doubling and 	table ► The 2.4 and 8	and division facts	number by a 1- digit number	factors ▶ Introduction
		Grouping	halving	times-tables	▶ 12 times-table	Multiply a 2-	to long
		Even and odd sharing	Odd and even numbers	 Multiples of 10 	and division facts	digit number by a 2-digit	division

	Play with and build doubles		A AA AA	The 10 times- table Divide by 10 The 5-times table Divide by 5 The 5 and 10 times-tables	A A A A A A A A A A A A A A A A A A A	Related calculations Reasoning about multiplication Multiplying a 2-digit number by a 1-digit number – no exchange Multiplying a 2-digit number by a 1-digit number – with exchange Link multiplication and division Divide a 2-digit number by a 1- digit number – no exchange Divide a 2-digit number by a 1- digit number – flexible partitioning Divide a 2-digit number by a 1- digit number – flexible partitioning Divide a 2-digit number by a 1- digit number – with remainders Scaling How many ways?	A A A AAAAAA A A A A A A A A	Multiply by 1 and 0 Divide a number by 1 and itself Multiply three numbers Factor pairs Use factor pairs Use factor pairs Multiply by 10 Divide by 10 Divide by 10 Divide by 100 Related facts – multiplication and division Informal written methods for multiplication Multiply a 2- digit number by a 1-digit number Divide a 2-digit number by a 1- digit number (2) Divide a 3-digit number by a 1- digit number (2) Divide a 3-digit number by a 1- digit number Divide a 3-digit number by a 1- digit number Correspondence problems	A A A A A A A A	number (area model) Multiply a 2- digit number by a 2-digit number Multiply a 3- digit number by a 2-digit number Multiply a 4- digit number by a 2-digit number Solve problems with multiplication Short division Divide a 4-digit number by a 1- digit number Divide with remainders Efficient division Solve problems with multiplication and division	AAAAA	Long division with remainders Solve problems with division Solve multi- step problems Oder of operations Mental calculations and estimation Reason for known facts
						ways?	A	problems Efficient multiplication				
Fractions Number		 Recognise half an object or shape Find a half of an object or shape Recognise a half of a quantity 	A A AAA A	Introduction to parts and whole Equal and unequal parts Recognise a half Find a half Recognise a quarter Find a quarter		Understand the denominators of unit fractions Compare and order unit fractions Understand the	A A A A	Understand the whole Count beyond 1 Partition a mixed number Number lines with mixed numbers	AAA	Find fractions equivalent to unit fractions Find fractions equivalent to non-unit fractions Recognise equivalent fractions	AAA	Equivalent fractions and simplifying Equivalent fractions on a number line Compare and order (denominator)

\triangleright	Find a half of a	A	Recoanise a		numerators of	A	Compare and	\triangleright	Convert	A	Compare and
, i	auantity		third		non-unit		order mixed	-	imnroner	<i>.</i>	order
	Recognise a	A	Find a third		fractions		numbers		fractions to		(numerator)
L	auarter of an	Â	Find the whole	Δ	Inderstand	4	linderstand		mixed	4	Add and
	quarter of an		Linit fractions		the whole		improper		numbers		cubtract
	object of		Non unit	~	Compare and		fractions		Convert mixed		subtruct
~	Shupe Find a supertor		NON-UNIL francticano	-	compare ana	Ν	Juctions Converting		convertinixed		Simple
-	Fina a quarter	N	Jractions		order non-unit		Convert mixed		numbers to	N	Jractions Add. and
	of an object or		Recognise the	*	fractions		numbers to		Improper		Add and
	snape		equivalence of a	>	Fractions and		improper		fractions		subtract any
	Recognise a		half and two		scales		fractions	>	Compare		two fractions
	quarter of a		quarters	\succ	Fractions on a	4	Convert		fractions less	4	Add mixed
	quantity	4	Recognise three-		number line		improper		than 1		numbers
	Find a quarter		quarters		Count in		fractions to	≻	Order fractions	4	Subtract
	of a quantity	\wedge	Find three-		fractions on a		mixed numbers		less than 1		mixed
			quarters		number line	A	Equivalent	\succ	Compare and		numbers
		\wedge	Count in	\succ	Equivalent		fractions on a		order fractions	\wedge	Multi-step
			fractions up to a		fractions on a		number line		greater than 1		problems
			whole		number line	\checkmark	Equivalent	\succ	Add and	\checkmark	Multiply
				\succ	Equivalent		fraction families		subtract		fractions by
					fractions as	\checkmark	Add two or more		fractions with		integers
					bar models		fractions		the same	\checkmark	Multiply
				\succ	Add fractions	\triangleleft	Add fractions		denominator		fractions by
				\triangleright	Subtract		and mixed	\succ	Add fractions		fractions
					fractions		numbers		within 1	\checkmark	Divide a
				\succ	Partition the	A	Subtract two	\succ	Add fractions		fraction by an
					whole		fractions		with a total		integer
				\triangleright	Unit fractions	\checkmark	Subtract from		areater than 1	$ \land $	Divide any
					of a set of		whole amounts	\succ	Add to a mixed		fraction by an
					obiects	A	Subtract from		number		inteaer
				\triangleright	Non-unit		mixed numbers	\triangleright	Add two mixed	A	Mixed
					fractions of a				numbers		auestions
					set of objects			\triangleright	Subtract		with fractions
				\triangleright	Reasonina				fractions	\mathbf{A}	Fraction of an
					with fractions				Subtract from	-	amount
					of an amount			Ĺ	a mixed	A	Fraction of an
					oj un uniount				number		amount - find
									Subtract from		the whole
								Ĺ	a mixed	4	Eractions as
									number -	-	division
									hranking the	Δ	Eractions to
									whole		Fructions to
								~	Subtract two	Ν	Faulualant
									Subtract two	1	Equivalent
									mixea		jractions,
								4	numbers		aecimais and
									wuitipiy a unit		percentages
									fraction by an	4	Urder
									integer		fractions,

					\triangleright	Multiply a		decimals and
						non-unit		percentages
						fraction by an		
						integer		
					\triangleright	Multiply a		
						mixed number		
						by an integer		
					\triangleright	Calculate a		
						fraction of a		
						quantity		
					\triangleright	Find the whole		
					\triangleright	Use fractions		
						as operators		
Decimals			A	Tenths as a	A	Decimals up to	A	Place value
20011010				fraction		2 decimal		within 1
			\checkmark	Tenths as		places	\checkmark	Place value –
Number				decimals	\mathbf{A}	Equivalent		integers and
			A	Tenths on a		fractions and		decimals
				place value chart		decimals	\checkmark	Round
			\checkmark	Tenths on a		(tenths)		decimals
				number line	\checkmark	Equivalent	\checkmark	Add and
			\checkmark	Divide a 1-digit		fractions and		subtract
				number by 10		decimals		decimals
			\checkmark	Divide a 2-digit		(hundredths)	\checkmark	Multiply by
				number by 10	\checkmark	Equivalent		10, 100 and
			\wedge	Hundredths as		fractions and		1,000
				fractions		decimals	\checkmark	Divide by 10,
			\wedge	Hundredths as	\wedge	Thousandths		100 and 1,000
				decimals		as fractions	\wedge	Multiply
			A	Hundredths on a	\mathbf{A}	Thousandths		decimals by
				place value chart		as decimals		integers
			\wedge	Divide a 1 or 2-	\wedge	Thousandths	\wedge	Divide
				digit number by		on a place		decimals by
				100		value chart		integers
			4	Make a whole	4	Order and	4	Multiply and
				and tenths		compare		divide
			4	Make a whole		decimals		decimals in
				with hundredths		(same number		context
			4	Partition		of decimal	4	Decimals and
			N	aecimals	ĸ	piaces)		fraction
			4	Flexibly partition	1	Urder and	N	equivalents
			N	aecimais		compare any	1	Uraer
			1	compare		aecimals with		jractions,
			N	aecimais Order de size als		up to 3		aecimals and
			1	oraer aecimais		aecımal places		percentages

			4	Round to the	\mathbf{A}	Round to the	
				nearest whole		nearest whole	
				number		number	
			N		N	number David ta 1	
				Haives and		Rouna to 1	
				quarters as		decimal place	
				decimals	Â	Use known	
						facts to add	
						and subtract	
						decimals	
						within 1	
					\checkmark	Complements	
						to 1	
					A	Add and	
						subtract	
						dacimals	
					N		
						Add decimais	
						with the same	
						number of	
						decimal places	
					\wedge	Subtract	
						decimals with	
						the same	
						number of	
						decimal places	
					\checkmark	Add decimals	
						with different	
						numbers of	
						decimal nlaces	
					A	Subtract	
						decimals with	
						different	
						numbers of	
						numbers oj	
					ĸ	aecimai piaces	
					1	Efficient	
						strategies for	
						adding and	
						subtracting	
						decimals	
					\checkmark	Decimal	
						sequences	
					\checkmark	Multiply by 10,	
						100 and 1,000	
					\checkmark	Divide by 10,	
						100 and 1.000	
						Multiply and	
					-	divide	
		355555530000000000000000000000000000000					

					decimals –		
					missing values		
Percentages				\checkmark	Understand	\checkmark	Understand
Ū					percentages		percentages
				\checkmark	Percentages as	\checkmark	Percentage of
Number					fractions		amount – one
				A	Percentages as		step
					decimals	\wedge	Percentage of
				4	Equivalent		amount –
					fractions,	N	multi step
					decimals and		Percentages –
					percentages		missing
						N	Values
							fractions
							decimals and
							nercentages
						4	Order
							fractions.
							decimals and
							percentages
Nogativo				A	Understand		<u>,</u>
Negative					negative		
numbers					numbers		
Number				A	Count through		
					zero in 1s		
				\checkmark	Count through		
					zero in		
					multiples		
				\wedge	Compare and		
					order negative		
					numbers		
				4	Find the		
					aijference	N	A -1-1
Ratio						4	Add or
Number						N	muitipiy?
						1	Use ratio
						Δ	Introduction
							to the ratio
							symbol
						A	Ratio and
						<i>,</i>	fractions
						A	Scale drawina
						\checkmark	Use scale
							factors
						\checkmark	, Similar shapes

Algebra Number								 Ratio problems Proportion problems Recipes 1-step function machines 2-step function machines 2-step function machines Form expressions Substitution Form equations Solve 1-step equations Solve 2-step equations Solve 3-step problems with two unknowns
Length and Height	Range 3: ➤ Shows an interest in size	 Explore height Compare height 	Compare lengths and heights	 Measure in centimetres Measure in 	Measure in metres and centimetres	Measure in kilometres and metres	 Perimeter of rectangles Perimeter of 	 Shapes – same area Area and
(Year R, 1 and 2)	and weight Beginning to 	 Explore length Compare 	Measure length using objects	metres → Compare heights and longths	Measure in millimetres	Equivalent lengths (kilometros and	rectilinear shapes Barimatar of	perimeter → Area of a
Volume	their own patterns (e.g.	iength	 Measure length in 	 Order lengths and heights 	centimetres and	metres) Perimeter on a	polygons Area of	counting squares
(Year 1)	lining up toys) Range 4:		centimetres	Four operations with lengths and heights	millimetres Metres, centimetres 	grid → Perimeter of a rectangle	rectangles → Area of compound	Area of a right-angled triangle
Length and Perimeter	differences in size, length,			 Four operations with volume and 	and millimetres	 Perimeter of rectilinear 	shapes Estimate area	 Area of any triangle
(Year 3 and 4)	weight and capacity			capacity	Equivalent lengths	shapes → Find missing	Cubic centimetres	Area of a parallelogram
Area					(metres and centimetres)	lengths in rectilinear	Compare volume	Volume – counting
(Year 4)					 Compare lengths Add lengths 	shapes → Calculate the perimeter of	Estimate volume	cubes

Perimeter and Area (Year 5) Volume (Year 5) Area, Perimeter and Volume (Year 6) Measurement			 Subtract lengths What is perimeter? Measure perimeter Calculate perimeter 	rectilinear shapes Perimeter of regular polygons Perimeter of polygons What is area? Count squares Make shapes Compare areas Perimeter of polygons Perimeter of Perimeter of
Mass, Capacity and Temperature Measurement	 Range 1: Responds to size, reacting to very big or very small items they see or try to pick up Range 2: Shows an interest in objects of contrasting sizes in meaningful contexts Gets to know and enjoys daily routing Shows an interest in emptying containers Range 3: Shows an interest in size and weight Explore capacity by selecting, filling and emptying containers 	 Compare size Compare mass Compare capacity Explore simple patterns Copy and continue simple patterns Create simple patterns Find a balance Explore capacity 	 Compare mass Measure in grams Measure in kilograms Four operations with mass Compare volume and capacity Measure in in kilograms Equivalent masses Measure in grams) Equivalent masses Measure in grams) Measure in inililitres Measure in litres Measure in litres Add and capacity Temperature Measure capacity and volume in litres and millilitres Equivalent capacity and volume in litres and millilitres Equivalent capacity and volume in litres and millilitres Equivalent capacities an volumes (litr and millilitres Compare capacity and volumes (litr and millilitres Add and subtract 	ss ss nd ss

	 Beginning to arrange items in their own patterns (e.g. lining up toys) Range 4: Explores differences in size, length, weight and capacity 		capacity and volume	
Converting Units Measurement				 Kilograms and kilometres Millimetres and millilitres Convert unit of length Convert between metric and imperial units Convert units between metric and between metric and between between metric and between betwee
Time Measurement	Range 1: > Talk about Shows interest time in patterned > Order and songs and sequence time rhymes, perhaps with repeated actions actions > Begins to predict what happens next in predictable situations Range 2: Joins in with repeated actions in songs and stories Initiates and continues repeated patterns	 Before and after past Days of the week Months of the year Hours, minutes and seconds Tell the time to the hour Months for the year Mour and seconds Tell the time to the hour Tell the time to the hour Months of the year Mour and seconds Tell the time to the hour Minutes in an hour Hours in a day 	 Roman numerals to 12 Tell the time to 5 minutes Tell the time to the minute Read time on a digital clock Use a.m and p.m Years, months, weeks and days Hours, minutes and seconds Convert betweer analogue and digital times Convert to the 24 hour clock Years, months and days Days and hours Hours and minutes – use start and end times Hours and minutes – use durations 	

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	using flat	circles and		3-D shapes	describe 3-D		straight line	quadrilaterals
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	Responds to	Shapes in the		on 3-D shapes	Make 3-D		angles in	polygons
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Position and	 Developina 	Í	position	Â	Describe		position		usina	,	coordinates	ŕ	auadrant
Direction	awareness of	A	My day and	, in the second	nosition – left	A	Describe		coordinates	A	Prohlem	A	Read and nlot
Geometrv	their own	ĺ.	niaht		and right	· ·	movement	A	Plot coordinates	ŕ	solving with		points in four
,	bodies, that	A	Identify units	A	Describe	\mathbf{A}	Describe turns	À	Draw 2-D shapes		coordinates		auadrants
	their body has	Í	of repeating	, in the second	position –	À	Describe	-	on a arid	\mathbf{A}	Translation	\mathbf{A}	Solve
	different parts		patterns		forwards and	· ·	movement and	A	Translate on a	À	Translation		problems with
	and where	$ \downarrow $	Create own		backwards		turns		arid		with		coordinates
	these are in		nattern rules	A	Describe	\triangleleft	Shape patterns	A	Describe		coordinates	\mathbf{A}	Translations
	relation to each	$ \downarrow $	Explore own		position –	-	with turns	-	translation on a	A	Lines of	À	Reflections
	other		pattern rules		above and				arid		symmetry	-	
	Explores space	$ \downarrow $	Replicate and		below				5	A	Reflection in		
	when they are		build scenes	A	Ordinal						horizontal and		
	free to move.		and		numbers						vertical lines		
	roll and stretch		constructions										
	Range 2:	\checkmark	Visualise from										
	Explores space		different										
	around them		positions										
	and engages	A	Describe										
	with position		positions										
	and direction.	\checkmark	Explore										
	, such as pointina		mannina										

	to where would like	they to go	4	Represent maps with										
	Range 3:	ing ying	A	models Create own maps from familiar places										
	Investigat fitting themselve inside and moving th	es rs I rough	A	Create own maps from story situations Deepen										
	spaces Range 4: Moves the body and around ob and explo fitting inte	eir toys ojects res	A	understanding Pattern and relationships										
	 spaces Begins to remembe way aroun familiar environme 	r their nd a ent												
	Responds some spatiand position	to tial onal												
	 Explore he things loo a differen viewpoint, including near or fa away 	ow k from t t things r												
	Joins in ar anticipate repeated and action patterns	nd s sound n												
Statistics					AAAA	Make tally charts Tables Block diagrams Draw pictograms (1-1)	AAA	Interpret pictograms Draw pictograms Interpret bar charts	AA AA	Interpret charts Comparison, sum and difference Interpret line graphs Draw line graphs	A A	Draw line graphs Read and interpret line graphs	44 4	Line graphs Dual bar charts Read and interpret pie charts

4	Interpret	\checkmark	Draw bar	A	Read and	\wedge	Pie charts
	pictograms (1-1)		charts		interpret		with
A	Draw	\checkmark	Collect and		tables		percentages
	pictograms (2, 5		represent data	$ \land $	Two-way	\wedge	Draw pie
	and 10)	\checkmark	Two-way		tables		charts
A	Interpret		tables	$ \land $	Read and	\wedge	The mean
	pictograms (2, 5				interpret		
	and 10)				timetables		