

Primary Phase Progression Map: Maths

	EYFS	Key S	tage 1	Lower Ke	ey Stage 2	Upper Ke	ey Stage 2
	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
PLACE VALUE							
Counting	Verbally count beyond 20, recognising the pattern of the counting system	Count to and across 100, forwards and backwards, beginning from 0 or 1, or from any given number Count numbers to 100 in numerals; count in multiples of twos, fives ad tens	Count in steps of 2, 3 and 5 from 0, and in tens from any number, forward and backward	Count from 0, in multiples of 4, 8, 50 and 100; find 10 or 100 more or less than a given number	Count in multiples of 6, 7, 9, 25 and 1,000 Count backwards through 0 to include negative numbers	Count forwards or backwards in steps of powers of 10 for any given number up to 1,000,000 Count forwards and backwards with positive and negative whole numbers, including through zero	
Represent	Have a deep understanding of number to 10, including the composition of each number Subitise (recognise quantities without counting) up to 5	Identify and represent numbers using objects and pictorial representations Read and write numbers to 100 in numerals Read and write numbers from 1 to 20 in numerals and words	Read and write numbers to at least 100 in numerals and words Identify, represent and estimate numbers using different representations, including the number line	Read and write numbers up to 1,000 in numerals and in words Identify, represent and estimate numbers using different representations	Identify, represent and estimate numbers using different representations Read Roman numerals to 100 (I to C) and know that over time, the numeral system changed to include the concept of zero and place value	Read, write, (order and compare) numbers to at least 1,000,000 and determine the value of each digit Read Roman numerals to 1,000 (M) and recognise years written in Roman numerals	Read, write, (order and compare) numbers up to 10,000,000 and determine the value of each digit
Use Place value and compare	Compare quantities up to 10 in different contexts, recognising when one quantity is greater than, less than or the same as the other quantity	Given a number, identify one more and one less	Recognise the place value of each digit in a two-digit numbers (tens, ones) Compare and order numbers from 0 up to 100; Use <, > and = signs	Recognise the place value of each digit in a three- digit number (hundreds, tens, ones) Compare and order numbers up to 1,000	Find 1,000 more or less than a given number Recognise the place value of each digit in a four-digit number (thousands, hundreds, tens and ones) Order and compare numbers beyond 1,000	Read, write, order and compare numbers to at least 1,000,000 and determine the value of each digit	Read, write, order and compare numbers to at least 10,000,000 and determine the value of each digit
Problems and Rounding			Use place value and number facts to solve problems	Solve number problems and practical problems involving these ideas	Round and number to the nearest 10, 100 or 1,000 Solve number and practical problems that involve all of the above with increasingly large positive numbers	Interpret negative numbers in context Round any number up to 1,000,000 to the nearest 10, 100, 1,000 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



Vocabulary explicitly taught and introduced	Count Subitise Order/ordinal Compare Forwards, Backwards Numerals, Digit One more, One less Equal to, More than, Less than (fewer)	Sort Represent Multiples Partitioning Ones Tens	Count in steps Count in multiples Place value Estimate Compare	Ascending Descending 10 or 100 more 10 or 100 less hundreds	Negative numbers Roman numerals 1,000 more 1,000 less Thousands Round	Ten thousands One hundred thousands Powers of integer	Millions Ten millions
SUBTRACTION							
Recall, Represent, Use	Automatically recall (without reference to rhymes, counting or other aids) number bonds up to 5 (including subtraction facts) and some number bonds to 10, including double facts	Read, write and interpret mathematical statements involving addition (+), subtraction (-) and equals (=) signs Represent and use number bonds and related subtraction facts within 20	Recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100 Show that addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot Recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems	Estimate the answer to a calculation and use inverse operations to check answers	Estimate and use inverse operations to check answers to a calculation	Use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy	
Calculations		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: A two-digit number and ones A two-digit number and tens Two two-digit numbers Adding three one- digit numbers 	 Add and subtract numbers mentally including: A three-digit number and ones A three-digit number and tens A three-digit number and hundreds Add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction	Add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate	Add and subtract whole numbers, with more than 4 digits, including using formal written methods (columnar addition and subtraction) Add and subtract numbers mentally with increasingly large numbers	Perform mental calculations, including with mixed operations and large numbers Use their knowledge of the order of operations to carry out calculations involving the four operations



Solve Problems		Solve one-step problems	Solve problems with	Solve problems, including	Solve addition and	Solve addition and	Solve addition and
		that involve addition and	addition and subtraction:	missing number problems,	subtraction two-step	subtraction multi-step	subtraction multi-step
		subtraction, using	Using concrete	using number facts, place	problems in contexts,	problems in contexts,	problems in contexts,
		concrete objects and	objects and pictorial	value, and more complex	deciding which operations	deciding which operations	deciding which operations
		pictorial representations,	representations,	addition and subtractions	and methods to use and	and methods to use and	and methods to use and
		and missing number	including those		why	why	why
		problems such as $7 = \Box - 9$	involving numbers,				
			quantities and			Solve problems involving	
			measures			addition, subtraction,	
			Applying their			multiplication and division	
			increasing knowledge			and a combination of	
			of mental and			these, including	
			written methods			understanding the	
						meaning of the equals sign	
Vocabulary	Add	Addition/add	Sum	Column addition	4-digit number		
explicitly taught	Plus	Subtraction	3-digit number	Column subtraction	Operations		
and introduced	Altogether	Difference	Commutative	Exchange	methods		
	Total	Equals		Estimate			
	Takeaway/minus	Facts					
	Number bonds	Problems					
	Part	Missing number problems					
	Whole	2-digit number					
	Digit	inverse					
MULTIPLICATION							
AND DIVISION							
Recall,	Explore and represent		Recall and use	Recall and use	Recall multiplication and	Identify multiples and factors,	Identify common factors,
Represent, Use	patterns within numbers		multiplication and division	multiplication and division	division facts for	including finding all factor	common multiples and
,,	up to 10, including even		facts for the 2, 5 and 10	facts for the 3, 4 and 8	multiplication tables up to	pairs of a number, and	prime numbers
	and odds, double facts and		multiplication tables,	multiplication tables	12 x 12	common factors of two numbers	
	how quantities can be		including recognising odd			numbers	Use estimation to check
	distributed equally		and even numbers		Use place value, known	Know and use the vocabulary	answers to calculations
					and derived facts to	of prime numbers, prime	and determine, in the
			Show that multiplication		multiply and divide	factors and composite (non-	context of a problem, an
			of two numbers can be		mentally, including:	prime) numbers	appropriate degree of
			done in any order		multiplying by 0 and 1;		accuracy
			(commutative) and		dividing by 1; multiplying	Establish whether a number up to 100 is prime and recall	
			division of one number by		together three numbers	prime numbers up to 19	
			another cannot			prime numbers up to 15	
					Recognise and use factor	Recognise and use square	
					pairs and commutativity in	numbers, and the notation for	
					mental calculations	squared (2) and cubed (3)	



						Reality in the second second second	A destation is seen that with the set
Calculations			Calculate mathematical	Write and calculate	Multiply two-digit and	Multiply numbers up to 4	Multiply multi-digit numbers up to two-digit 4 digits by a
			statements for	mathematical statements	three-digit numbers by a	digits by a one-or two-digit	two-digit whole number using
			multiplication and division	for multiplication and	one-digit number using	number using a formal	the formal written method of
			within the multiplication	division using the	formal written layout	written method, including	long multiplication
			tables and write them	multiplication tables that		long multiplication for two-	iong manipileation
			using the multiplication	they know, including for		digit numbers	Divide numbers up to 4 digits
			(x), division (+) and equals	two-digit numbers times			by a two-digit whole number
			(=) signs	one-digit numbers, using		Multiply and divide umbers	using the formal written
			() 0	mental and progressing to		mentally drawing upon	method of long division, and
				formal written methods		known facts	interpret remainders as whole
							number remainders, fractions,
						Divide numbers up to 4	or by rounding, as appropriate
						digits by a one-digit number	for the context
						using the formal written	
						method of short division	Divide numbers up to 4 digits by a two-digit number using
						and interpret remainders	the formal written method of
						appropriately for the context	short division where
						context	appropriate, interpreting
						Multiply and divide whole	remainders according to the
						Multiply and divide whole numbers and those	context
						involving decimals by 10,	Perform mental calculations,
						100 and 1,000	including with mixed
							operations and large numbers
Solve Problems		Solve one-step problems	Solve problems involving	Solve problems involving	Solve problems involving	Solve problems involving	Solve problems involving
		involving multiplication	multiplication and	missing number problems,	multiplying and adding,	multiplication and division	addition, subtraction,
		and division, by calculating	division, using materials,	involving multiplication	including using the	including using their	multiplication and division
		the answer using concrete	arrays, repeated addition,	and division, including	distributive law to multiply	knowledge of factors and	
		objects, pictorial	mental methods, and	positive integer scaling	two-digit numbers by one	multiples, squares and cubes	
		representations and arrays	multiplication and division	problems and	digit, integer scaling		
		with the support of the	facts, including problems	correspondence problems	problems and harder	Solve problems involving	
		teacher	in contexts	in which n objects are	correspondence problems	multiplication and division,	
				connected to m objects	such as n objects are	including scaling by simple	
				-	connected to m objects	fractions and problems	
Combined						involving simple rates	Lico thoir knowledge of the
Combined						Solve problems involving	Use their knowledge of the
Operations						addition, subtraction,	order of operations to
						multiplication and division	carry out calculations
						and a combination of	involving the four
						these, including	operations
						understanding the	
						meaning of the equals sign	
Vocabulary	Double, Half	Multiplication	Multiplication tables	Exchange	Factor pairs	Multiples, Factors	Multi-digit numbers
explicitly taught	Twice as many	Division	Commutative	Mathematical statements	Formal written layout	Prime numbers	Long division
and introduced	Equal, Unequal	Arrays	Repeated addition	Missing number problems	Distributive law	Square numbers	
	Share, Group			Integer scaling problems	Remainders	Cube numbers	
	Odd, Even			Correspondence problems		Short division	
				Derived facts		Product, Dividend, Divisor	
						Quotient	
						Operations	



FRACTIONS						
Recognise and Write	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 1/3, ¼, 2/4 and ¼ 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 number or quantities by 10 Recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators Recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators	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 as a mixed number (2/5 + 4/5 = 6/5 = 1 1/5)	
Compare		Recognise the equivalence of 2/4 and ½	Recognise and show, using diagrams, equivalent fractions with small denominators Compare and order unit fractions, and fractions with the same denominators	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
Calculations		Write simple fractions for example, ½ of 6 = 3	Add and subtract fractions with the same denominator within one whole (5/7 + 1/7 = 6/7)	Add and subtract fractions with the same denominator	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 diagrams	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 $(1/4 \times \frac{1}{2} = 1/8)$ Divide proper fractions by whole numbers $(1/3 \div 2 = 1/6)$
Solve Problems			Solve problems that involve all of the above	Solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number		



Vocabulary explicitly taught and introduced	Whole Half Quarter Equal parts	Three quarters Third Equivalent fractions Unit fractions Non-unit fractions Numerator, Denominator One whole	Tenths	Decimal equivalence Hundredths Convert Proper fractions Improper fractions Decimal point	Fifth Thousandths Mixed numbers Per-cent % Factors Integer Complements	
DECIMALS					•	
Recognise and				Recognise and write	Read and write decimal	Identify the value of each
Write				decimal equivalents of any number of tenths or hundredths Recognise and write decimal equivalents to ¼, ½, ¾	numbers as fractions (0.71=71/100) Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents	digit in numbers given to three decimal places
Compare				Round decimals with one decimal place to the nearest whole number Compare numbers with the same number of decimal places up to two decimal places	Round decimals with two decimal places to the nearest whole number and to one decimal place Read, write, order and compare numbers with up to three decimal places	
Calculations and Problems				Find the effect of dividing a one or two-digit numbers by 10 and 100, identifying the value of the digits in the answer as ones, tenths and hundredths	Solve problems involving number up to three decimal places	Multiply and divide numbers by 10, 100 and 1,000 giving answers up to three decimal places Multiply one-digit numbers with up to two decimal places by whole numbers Use written division methods in cases where the answer has up to two decimal places Solve problems which require answers to be rounded to specified degrees of accuracy



Fractions,				Solve simple measure and	Recognise the percent (%)	Associate a fraction with
Decimals and				money problems involving	and understand that per	division and calculate
Percentages				fractions and decimals to	cent relates to 'number of	decimal fraction
reiteiltages				two decimal places	parts per hundred', and	equivalents (0.375 for a
				·	write percentages as a	simple fraction e.g. 3/8)
					fraction with denominator	
					100, and as a decimal	Recall and use
					100, and as a decimal	equivalences between
					Calua waablawa uubiab	
					Solve problems which	simple fractions, decimals
					require knowing	and percentages, including
					percentage and decimal	in different contexts
					equivalents of ½, ¼, 1/5,	
					2/5, 24/5 and those	
					fractions with a	
					denominator of a multiple	
					of 10 or 25	
Vocabulary	Whole	Three quarters	Tenths	Decimal equivalence	Fifth	
explicitly taught	Half	Third		Hundredths	Thousand ths	
	Quarter	Equivalent fractions		Convert	Mixed numbers	
and introduced	Equal parts	Unit fractions		Proper fractions	Per cent%	
		Non-unit fractions		Improper fractions	Factors	
		Numerator, Denominator		Decimal point	Integer	
				Decimal point	Complements	
	 	One whole			Complements	
RATIO AND						
PROPORTION						
Ratio and						Solve problems involving
Proportion						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



Vocabulary explicitly taught and introduced ALGEBRA						Relative size Missing values Integer multiplication Percentages Scale factor Unequal sharing and grouping
Algebra		tion is not introduced until Yea 'missing number' objectives fro Recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems				Use simple formulae Generate and describe linear number sequences Express missing number problems algebraically Find pairs of numbers that satisfy an equation with two unknowns Enumerate possibilities of combinations of two variables
Vocabulary explicitly taught and introduced						Formulae Linear number sequences Algebraically Equation Unknowns Combinations Variables
MEASUREMENT						
Using Measures	Compare, describe and solve practical problems for: Lengths and heights (for example, long/short, longer/shorter, tall/short, double/half); Mass/weight (for example, heavy/light, heavier than, lighter than); Capacity and volume (for example, full/empty, more than, less than, half, half full, quarter); Time (for example, quicker, slower, earlier, later). Measure and begin to record the following: Lengths and heights; Mass/weight; Capacity and volume; Time (hours, mins, seconds).	Choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm); mass (kg/g); temperature (°C); capacity (litres/ml) to the nearest appropriate unit, using rulers, scales, thermometers and measuring vessels Compare and order lengths, mass, volume/capacity and record the results using <,> and =	Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml)	Convert between different units of measure (for example, kilometre to metre; hour to minute) Estimate, compare and calculate different measures	Convert between different units of metric measure (for example, kilometre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre) Understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints Use all four operations to solve problems involving measure (for example, 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 Use, read, write and convert between standard units, converting measurements of length, mass, volume and time from a smaller unit of measure to a larger unit, and vice versa, using decimal notation to up to three decimal places Convert between miles and kilometres



Perimeter, Area,				Measure the perimeter of	Measure and calculate the	Measure and calculate the	Recognise that shapes with
Volume				simple 2-D shapes	perimeter of a rectilinear	perimeter of composite	the same areas can have
					figure (including squares)	rectilinear shapes in	different perimeters and
					in centimetres and metres	centimetres and metres	vice versa
							Descention where it is receible
					Find the area of rectilinear	Calculate and compare the	Recognise when it is possible to use formulae for area and
					shapes by counting	area of rectangles	
					squares	(including squares), and	volume of shapes
						including using standard	Calculate the area of
						units, square centimetres	
						(cm ²) and square metres	parallelograms and triangles
						(m ²) and estimate the area	Calculate, estimate and
						of irregular shapes	
						of firegular shapes	compare volume of cubes
						Estimate volume (for	and cuboids using standard units, including cubic
						example, using 1cm ³	centimetres (cm ³) and cubic metres (m ³), and extending
						blocks to build cuboids	to other units (mm ³ and
						(including cubes) and cap	km ³)
	D4	Commons.	Standard units	Millimetre mm	Kilometres km	Decimal notation	Conversion
Vocabulary	Measure	Compare					
explicitly taught	Wid(er)		Estimate	perimeter	Rectilinear figure	Scaling	Miles
and introduced	Narrow(er)		Order		Area	Metric Units	Formulae
	Compare		Record results			Imperial Units	Parallelograms
	Long(er)(est)		Centimetre cm			Inches	Triangles
	Short(er)(est)		Metre m			Compound shape	Feet
	length					Irregular shapes	
						Square centimetres	
						Square metres	
	Height	Mass	Kilogram kg			Cubic centimetre	Cubic metre
	Long(er)/short(er)	Volume	Gram g			Pounds	Cubic millimetre
	Tall(er)/short(er)		Quarter full			Pints	Cubic kilometre
	Weight		Three quarters full				Gallons
	Capacity		Litres I				Stones
	Heavy/light		Millilitres ml				Ounces
	Heavier than		Temperature				
	Lighter than		Celsius				
	Big/bigger/biggest						
	Full/empty						
	More than						
	Less than						
	Half/half full						



·							
Money		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 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	Estimate, compare and calculate different measures, including money in pounds and pence	Use all four operations to solve problems involving measure (for example, money)	
Vocabulary		Money	Value				
explicitly taught		Coins, Notes	Change				
and introduced		Pounds £, Pence p	-				
Time		Sequence events in chronological order using language (for example, before and after, next, first, today, yesterday, tomorrow, morning, afternoon and evening) Recognise and use language relating to dates, including days of the week, weeks, months and years Tell the time to the hour and half past the hour and draw the hands on a clock face to show these times	Compare and sequence intervals of time Tell and write the time to five minutes, including quarter past/to the hour and draw the hands on a clock face to show these times Know the number of minutes in an hour and the number of hours in a day	Tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12- hour and 24- hour clocks Estimate and read time with increasing accuracy to the nearest minute; record and compare time in terms of seconds, minutes and hours; use vocabulary such as o'clock, a.m./p.m., morning, afternoon, noon and midnight Known the number of seconds in a minute and the number of days in each month, year and leap year Compare durations of events (for example to calculate the time taken by particular events or tasks)	Read write and convert between analogue and digital 12- and 24-hour clocks Solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days	Solve problems involving converting between units of time	Use, read, write and convert between standard units, converting measurements of time from a smaller unit of measure to a larger unit, and vice versa
Vocabulary	Time Outstand Clauser	Chronological order	Intervals of time	Analogue clock	Convert		
explicitly taught	Quicker, Slower	Days of the week	Quarter past/to duration	Roman numerals 12-hour clock			
and introduced	Earlier, Later Before, After	Months of the year Month	duration	24-hour clock			
	First, Next	Year		a.m./p.m.			
	Today, Yesterday, Tomorrow	O'clock		Noon			
	Morning, Afternoon, Evening	Half past		Midnight			
	Day, Week Hour, Minutes	Second		Leap year			
	noar, winates			Digital			



GEOMETRY							
2-D shapes		Recognise and name common 2-D shapes (rectangles – including squares, circles and triangles)	Idenify and describe the properties of 2-D shapes, including the number of sides and line symmetry in a vertical line Identify 2-D shapes on the suface 3-D shapes (a circle n a cylinder and a triangle on a pyramid) Compare and sort common 2-D shapes and everyday objects	Draw 2-D shapes	Compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes Identify lines of symmetry in 2-D shapes presented in different orientations	Distinguish between regular and irregular polygons based on reasoning about equal sides and angles Use the properties of rectangles to deduce related facts and find missing lengths and angles	Draw 2-D shapes using given dimensions and angles Compare and classify geometric shapes based on their properties and sizes Illustrate and name parts of circles including radius, diameter and circumference and know that the diameter is twice the radius
3-D shapes		Recognise and name common 3-D shapes (cuboids - including cubes, pyramids and spheres)	Recognise and name common 3-D shapes (cuboids - including cubes, pyramids and spheres) Compare and sort common 3-D shapes and everyday objects	Make 3-D shapes using modelling materials; recognise 3-D shapes in different orientations and describe the,		Identify 3-D shapes, including cubes and other cuboids, from 2-D representations	Recognise, describe and build simple 3-D shapes including making nets
Vocabulary explicitly taught and introduced	2-D shapes Rectangle Square Circle Triangle Characteristics 3-d shapes Cuboids Cubes Cone Spheres Curved Straight Flat	Sides Corners Properties Pyramids faces	Pentagon Hexagon Line of symetry Properties Cylinder Edges Vertices Vertex	Right-angle triangle Heptagon Octagon Polygon Properties Prism	Isosceles, Equilateral Scalene Trapezium Rhombus Parallelogram Kite Geometric shapes Quadrilaterals	Regular polygon Irregular polygon	Radius Diameter Circumference Dimensions



Angles and Lines			Recognise angles as a	Identify acute and obtuse	Know angles are	Find unknown angles in
			property of shape or a	angles and compare and	measured in degrees:	any triangles,
			description of a turn	order angles up to two	estimate and compare	quadrilaterals and regular
				right angles by size	acute, obtuse and reflex	polygons
			Identify right angles,		angles	
			recognise that two right	Identify lines of symmetry	-	Recognise angles where
			angles make a half-turn,	in 2-D shapes presented in	Draw given angles and	they meet at a point, are
			three make three quarters	different orientations	measure them in degrees	on a straight line, or are
			of a turn and four a	different offentations	Identify:	vertically opposite and find
			complete turn; identify		,	
			whether angles are greater	Complete a simple	Angles at a point and	missing angles
			than or less than a right	symmetric figure with	one whole turn (total	
			angle	respect to a specific line of	360°)	
			-	symmetry	Angles at a point on a	
			Identify horizontal and		straight line and ½ a	
			vertical lines and pairs of		turn (total 180°)	
			perpendicular and parallel		Other multiples of	
			lines		90°	
Maaabulami			Orientations			
Vocabulary					Reflex angles	
explicitly taught			Angles		Degrees	
and introduced			Acute angle		One whole turn	
			Obtuse angle		Angles on straight line	
			Turn		Angles around a point	
			Right angles		Vertically opposite	
			Half turn		Missing angles	
			Three quarters of a turn		0.000	
			Greater than right angle			
			Less than right angle			
			Horizontal lines			
			Vertical lines			
			Perpendicular lines			
			Parallel lines			
Position and	Describe position,	Order and arrange		Describe the positions on	Identify, describe and	Describe positions on the
Direction	direction and movement	combinations of		a 2-D grid as coordinates	represent the position of a	full coordinate grid (all
Direction	including whole, half,	mathematical objects in		in the first quadrant	shape following a	four guadrants)
	quarter and three-quarter	patterns and sequences			reflection or translation,	
	turns	participation and bequeinded		Describe movements	using the appropriate	Draw and translate simple
	Carris	Use mathematical		between positions as	language, and know that	shapes on the coordinate
					0.01	plane, and reflex them in
		vocabulary to describe		translations of a given	the shape has not changed	• •
		position, direction and		unit to the left/right and		the axis
		movement including		up/down		
		movement in a straight				
		line and distinguishing				
		between rotation as a turn				
		and in terms of right				
		angles fr quarter, half and				
		three-quarter turns				
		(clockwise and				
		anticlockwise)				



Vocabulary explicitly taught and introduced	Over, Under Between Around Through On Into Next to Behind Beneath, On top of Order Repeat Patterns	Position Direction Movement Whole turn Quarter turn Half turn Three-quarter turn	Clockwise/anti-clockwise Straight line Rotation Arrange Sequemces		Co-ordinates First quadrant Grid Translation Plot Polygon Axis	Reflection	Four quadrants Co-ordinate plane
STATISTICS							
Present and Interpret			Interpret and construct simple pictograms, tally charts, block diagrams and simple tables	Interpret and present data using bar charts, pictograms and 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
Solve 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 (<i>How many</i> <i>more?</i> / <i>How many fewer?</i>) 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
Vocabulary explicitly taught and introduced			Pictograms Tally chart Block diagram Category Sorting Totalling Comparing Horizontal Vertical	Table Bar chart One-step problem Two-step problem	Time graph Discrete data Continuous data Line graph Comparison problem Sum problem Different problem Calculate Interpret	Timetable Two0way tables	Pie chart Mean