



Intent

Mathematics at Holly Lodge Primary Academy is challenging, exciting, creative and engaging, and enables children to become confident mathematicians with a love for the subject. Using a mastery approach, fluency, problem solving and reasoning are at the heart of our teaching. This ensures all children develop secure and transferable maths skills which are applicable to real life situations.

Implementation

The teaching of maths at Holly Lodge allows all children to achieve. The schemes, Power Maths and White Rose, are used to guide teachers' planning using the mastery approach. Lessons are carefully planned allowing the whole class to access the same lesson, whilst ensuring learning is personalised via support or challenge. Small steps in progression ensure that children are always making links to prior learning and building on previous understanding. Each new concept is practised and embedded via varied fluency, then reasoning and problem solving ensure a deep understanding of the methodologies within the maths. Children are taught to explain their understanding and give clear reasoning, using appropriate mathematical vocabulary. By exposing children to maths concepts in a range of representations (concrete, pictorial and abstract), and contexts, they are able to build on their knowledge and apply what they know to new areas. Where appropriate maths is woven into the wider curriculum, enabling children to recognise the relevance and value of maths in day-to-day life.

To support fluency in multiplication, we use Times Tables Rock Stars at home and in school.

<u>Impact</u>

- Children at Holly Lodge have a love for maths and approach learning with a 'can do' attitude.
- Children have a rapid recall of number facts and times tables enabling them to be agile mathematicians.
- Children are resilient learners and persevere to establish a deep understanding of mathematical methodologies and can use these in reasoning.
- Children are able to link their learning to solve real-life problems.
- Children readily accept maths challenges both within school and beyond that test their mathematical agility and deep understanding of mathematical concepts.





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Number and Place Value									
Rec	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6			
Count objects, actions	Count to and across	Count in steps of 2,	Count from 0 in	Count backwards	Interpret negative	Use negative numbers			
and sounds.	100, forwards and	3, and 5 from 0, and	multiples of 4, 8, 50	through zero to	numbers in context,	in context, and			
Link the number	backwards, beginning	in tens from any	and 100.	include negative	count forwards and	calculate intervals			
symbol (numeral) with	with 0 or 1, or from	number, forward or		numbers.	backwards with	across zero.			
its cardinal number	any given number.	backward.	Find 10 or 100 more		positive and negative				
value			or less than a given	Count in multiples of	whole numbers,	Read, write, order			
	Count, read and write	Compare and order	number.	6, 7, 9, 25 and 1000.	including through	and compare numbers			
Subitise	numbers to 100 in	numbers from 0 up to			zero.	up to 10 000000 and			
Count beyond ten.	numerals.	100; use and = signs.	Compare and order	Find 1000 more or		determine the value			
			numbers up to 1000.	less than a given	Count forwards or	of each digit.			
	Count in multiples of	Identify, represent		number.	backwards in steps of				
Understand the 'one	twos, fives and tens	and estimate	Identify, represent		powers of 10 for any	Round any whole			
more than/one less	from any	numbers using	and estimate	Order and compare	given number up to	number to a required			
than' relationship	given number.	different	numbers using	numbers beyond	1,000,000.	degree of accuracy.			
between consecutive		representations	different	1000.					
numbers.	Identify one more	(including the number	representations.		Read, write, order	Solve number and			
	and one less.	line).		Identify, represent	and compare numbers	practical problems			
ELG			Read and write	and estimate	to at least 1 000 000	that involve all of the			
Compare quantities	Identify and	Read and write	numbers up to 1000	numbers using	and determine the	above			
up to 10 recognising	represent numbers	numbers to at least	in numerals and in	different	value of each digit.				
when one quantity is	using objects and	100 in numerals and in	words.	representations.					
greater than, less	pictures (including	words.			Read Roman numerals				
than or the same as	the number line).		Recognise the place	Read Roman numerals	to 1000 (M) and				
the other quantities.		Recognise the place	value of each digit in	to 100 (I to <i>C</i>) and	recognise years				
	Read and write	value of each digit in	a three-digit number	know that over time,	written in Roman				
Explore and	numbers from 1 to 20	a two-digit number	(hundreds, tens,	the numeral system	numerals.				
represent patterns	in numerals and	(tens, ones).	ones).	changed to include					
within numbers up to	words.			the concept of zero	Round any number up				
10, including evens		Use place value and	Solve number	and place value.	to 1 000 000 to the				
and odds, double		number facts to solve	problems and		nearest 10, 100, 1				
facts and how		problems.	practical problems	Recognise the place	000, 10 000 and 100				
quantities can be			involving these ideas.	value of each digit in	000.				
distributed equally.				a four-digit number					

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#	Subitise (recognise quantities without counting) up to 5				(thousands, hundreds, tens, and ones). 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	Solve number problems and practical problems that involve all of the above.		Simony	_
	Key Vocab Number Zero, one, two, three to twenty, and beyond None Count (on/up/to/from/down) Before, after More, less, many, few, fewer, least, fewest, smallest, greater, lesser Equal to, the same as Odd, even Pair Estimate, guess	Key Vocab More than, less than, most, fewer, least, equal, number, digit, same, different, count(ing) forwards, backwards, more (than), less (than), total fewer (than), most, least Tens, ones	Key Vocab Compare, order, greater than, less than, equal to, estimate, partition, tens, ones	Key Vocab Hundreds, one hundred and one, one hundred and two, one hundred and three, and so on up to one thousand	Key Vocab Negative numbers, round(ing), tenths, hundredths, thousands, Roman numerals to 100 'C', operation	Key Vocab Ten thousands, hundred thousands, millions, powers, Roman numerals to 1000 'M', linear sequence	Key Vocab Ten millions, interv	als	





Addition & Subtraction

		Addii	ion a Subii	action		
Rec	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Explore the	Addition	Addition	Addition	Addition	Addition	Addition
composition of	Combining two parts	Adding three single	Column method with	Column method with	Column method with	Column method with
numbers to 10.	to make a whole: part-part-whole	digits.	regrouping.	regrouping (up to 4-digits).	regrouping.	regrouping.
Automatically recall	model.	Use of dienes to	Using place value		Use of place value	Abstract methods.
number bonds for		combine two numbers.	counters (up to 3-	Subtraction	counters for adding	Place value counters
numbers 0-10.	Starting at the		digits).	Column method with	decimals.	to be used for adding
	bigger number and	Subtraction		regrouping. (up to 4-		decimal numbers.
ELG	counting on (using	Counting back.	Subtraction	digits)	Subtraction	
Automatically recall	objects).		Column method with		Column method with	Subtraction
number bonds up to		Find the difference.	regrouping (up to 3-		regrouping.	Column method with
5 (including	Regrouping to make		digits using place			regrouping.
subtraction facts)	10 using ten frame.	Part-part-whole	value counters)		Abstract for whole	
and some number		model.			numbers.	Abstract methods.
bonds to 10,	Subtraction					
including double	Taking away ones.	Use of dienes.			Start with place	Place value counters
facts					value counters for	for decimals (with
	Counting back.				decimals (with the same amount of	different amounts of decimal places).
	Find the difference.				decimal places).	decimal places).
	Part-part-whole					
	model.					
	Make 10 using the ten					
	frame.					

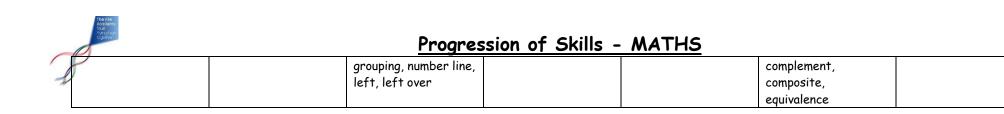
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	Key Vocab	<u>Key Vocab</u>	<u>Key Vocab</u>	<u>Key Vocab</u>	<u>Key Vocab</u>	<u>Key Vocab</u>	Key Vocab	ary Acades
1	Number	Add, addition, plus,	Difference, total,	Column addition/	Efficient written		order of operations	YACO
	Zero, one, two, three	more, altogether,	tens, ones, partition,	subtraction,	method		interval	
	to twenty, and beyond	take away, subtract,	exchange,	regrouping,				
	None	subtraction, less,	commutative					
	Count	part-part-whole,						
	(on/up/to/from/down)	equal, number line,						
	Before, after	how many larger,						
	More, less, many, few,	smaller, compare,						
	fewer, least, fewest,	together, altogether,						
	smallest, greater,	bonds, plus						
	lesser	add(ition),						
	Equal to, the same as	subtract(ion) minus,						
	Odd, even	difference						
	Pair	(between), ones, tens,						
		column(s),						
		order, number,						
		amount, value, size						





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	Multiplication & Division								
Rec	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6			
Not taught discreetly	Recognising and making equal groups.	Arrays- showing commutative	Arrays 2d × 1d using dienes	Column multiplication introduced with place	Column multiplication	Column multiplication			
		multiplication		value counters.	Abstract only but	Abstract methods			
Recognise odd and	Doubling		Division with a		might need a repeat	(multi-digit up to 4-			
even numbers	Counting in multiples Use cubes, Numicon	Division as grouping	remainder-using lollipop sticks, times	(2 and 3-digit multiplied by 1-digit)	of year 4 first (up to 4-digit numbers	digits by a 2-digit number)			
Double facts	and other objects in	Division within	tables facts and		multiplied by 1 or 2-				
Patterns in numbers	the classroom	arrays- linking to multiplication	repeated subtraction.	Division with a remainder	digits)	Short division			
	Sharing objects into	·	2d divided by 1d		Short division (up to	Long division with			
	groups	Repeated subtraction	using dienes or place value counters	Short division (up to 3-digits by 1-digit	4-digits by a 1-digit number including	place value counters (up to 4-digits by a 2-			
	Division as grouping			concrete and	remainders)	digit number)			
	e.g. I have 12 sweets			pictorial)		Children should			
	and put them in					exchange into the			
	groups of 3, how					tenths and			
	many groups?					hundredths column			
	Use cubes and draw								
	round 3 cubes at a								
	time.								
<u>Key Vocab</u>	<u>Key Vocab</u>	<u>Key Vocab</u>	<u>Key Vocab</u>	<u>Key Vocab</u>	<u>Key Vocab</u>	<u>Key Vocab</u>			
share, double, half	groups of, lots of,	multiplied by,	product	multiplication facts	factor pairs	order of operations			
	times, array,	repeated addition,		(up to 12x12) factor,					
	altogether, multiply,	column, row,	multiples of four,	derive, remainder	composite numbers,	common factors,			
	count	commutative, sets of,	eight, fifty and one		prime number, prime	common multiples			
		equal group of, times,	hundred	division facts	factors, square				
	share, share equally,	as big as, once, twice,			number, cubed	multi-step, long			
	one each, two each,	three times as,	scale up	inverse	number	division			
	group, groups of, lots	times tables							
	of	1	inverse operations,		formal written				
		divide, divide by,	integer(s),		method, power(s)				
		divided into, division,							









	Fractions (inc. decimals & percentages)						
Rec	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	
Not taught discreetly	Recognise, find and name a half as one of two equal parts of an object, shape or	Recognise, find, name and write fractions 1/3, 1/4, 2/4 and 3/4 of a length, shape,	Count up and down in tenths. Recognise, find and	Count up and down in hundredths. Recognise that	Recognise and use thousandths and relate them to tenths, hundredths	Compare and order fractions, including fractions >1	
Doubles and halves of objects, shape and amounts	quantity. Recognise, find and name a quarter as one of four equal parts of	set of objects or quantity. Write simple fractions e.g. 1/2 of	write fractions of a discrete set of objects: unit fractions and non-unit fractions with	hundredths arise when dividing an object by one hundred and dividing tenths by ten.	and decimal equivalents Compare and order fractions whose	Identify the value of each digit in numbers given to three decimal places	
	an object, shape or quantity	6 = 3 and recognise the equivalence of 2/4 and 1/2.	small denominators. Recognise that tenths arise from	Compare numbers with the same number of decimal	denominators are all multiples of the same number	Solve problems which require answers to be rounded to specified degrees of accuracy	
			dividing an object into 10 equal parts and in dividing one - digit numbers or quantities by 10.	places up to two decimal places. Round decimals with one decimal place to the nearest whole	Read, write, order and compare numbers with up to three decimal places Round decimals with	Use common factors to simplify fractions; use common multiples to express fractions in the same	
			Recognise and use fractions as numbers: unit fractions and non-unit fractions with small	number. Recognise and show, using diagrams, families of common	two decimal places to the nearest whole number and to one decimal place	denomination Associate a fraction with division and calculate decimal	
			denominators.	equivalent fractions.	Identify, name and write equivalent	fraction equivalents (e.g. 0.375) for a	
			Compare and order unit fractions, and fractions with the	Recognise and write decimal equivalents of any number of	fractions of a given fraction, represented visually, including	simple fraction (e.g. 3/8)	
			same denominators. Recognise and show, using diagrams,	tenths or hundredths.	tenths and hundredths Read and write	Recall and use equivalences between simple fractions, decimals and	
			equivalent fractions		decimal numbers as	percentages,	

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					denominator of a multiple of 10 or 25.	decimal places and multiply and divide numbers by 10, 100 and 1000 where the answers are up to three decimal places Associate a fraction with division and calculate decimal fraction equivalents (e.g. 0.375) for a simple fraction (e.g. 3/8) Use written division methods in cases where the answer has up to two decimal places
<u>Key Vocab</u> Half of, double	Key Vocab Whole, half, share, 2 equal parts, quarter, 4 equal parts.	Key Vocab Parts, one third, two quarters, three quarters, equivalence, fraction, numerator, denominator, fraction bar, sharing, grouping	Key Vocab Fifths, sixths, sevenths, eights, ninths, tenths, unit fraction, non- unit fraction decimal(s), order, remainder	Key Vocab Equivalent fractions and decimals improper fraction, proper fraction, mixed number fraction, hundredth(s) decimal equivalents decimal places	Key Vocab Percent/ percentage, ratio, proportion, thousandths	Key Vocab Degree of accuracy simplify





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Rec	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
*Taught within	Compare, describe	Compare and order	Compare durations of	Estimate, compare	Calculate and	Calculate, estimate
number and place	and solve practical	lengths, mass,	events, for example	and calculate	compare the area of	and compare volume
value*	problems for:	volume/capacity and	to calculate the time	different measures,	squares and	of cubes and cuboids
	-lengths and heights	record the results	taken by particular	including money in	rectangles including	using standard units,
Comparing measures	[e.g. long/short, longer/shorter,	using >, < and =	events or tasks	pounds and pence	using standard units, square centimetres	including centimetre cubed (cm³) and cubic
	tall/short,	Compare and	Estimate and read	Measure and	(cm ²) and square	metres (m³), and
	double/half]	sequence intervals of	time with increasing	calculate the	metres (m ²) and	extending to other
	-mass/weight [e.g.	time	accuracy to the	perimeter of a	estimate the area of	units such as mm ³ and
	heavy/light, heavier		nearest minute;	rectilinear figure	irregular shapes	km ³ .
	than, lighter than]	Choose and use	record and compare	(including squares) in		
	-capacity and volume	appropriate standard	time in terms of	centimetres and	Estimate volume (e.g.	Solve problems
	[e.g. full/empty, more	units to estimate and	seconds, minutes,	metres	using 1cm³ blocks to	involving the
	than, less than, half,	measure	hours and o'clock; use		build cubes and	calculation and
	half full, quarter]	length/height in any	vocabulary such as	Find the area of	cuboids) and capacity	conversion of units of
	-time [e.g. quicker,	direction (m/cm);	a.m./p.m., morning,	rectilinear shapes by	(e.g. using water)	measure, using
	slower, earlier, later]	mass (kg/g);	afternoon, noon and	counting squares		decimal notation up
		temperature (°C);	midnight		Use all four	to three decimal
	Sequence events in	capacity (litres/ml)		Read, write and	operations to solve	places where
	chronological order	to the nearest	Measure, compare,	convert time between	problems involving	appropriate
	using language [e.g.	appropriate unit,	add and subtract:	analogue and digital	measure (e.g. length,	
	before and after,	using rulers, scales,	lengths (m/cm/mm);	12 and 24-hour clocks	mass, volume, money)	Recognise that
	next, first, today,	thermometers and	mass (kg/g);		using decimal	shapes with the same
	yesterday, tomorrow,	measuring vessels	volume/capacity	Solve problems	notation including	areas can have
	morning, afternoon		(I/ml)	involving converting	scaling.	different perimeters
	and evening]	Recognise and use		from hours to		and vice versa
		symbols for pounds	Measure the	minutes; minutes to	Measure and	
	Measure and begin to	(£) and pence (p);	perimeter of simple	seconds; years to	calculate the	Calculate the area of
	record the following:	combine amounts to	2-D shapes	months; weeks to	perimeter of	parallelograms and
	-lengths and heights	make a particular		days	composite rectilinear	triangles
	-mass/weight	value	Add and subtract		shapes in centimetres	
	-capacity and volume		amounts of money to	Convert between	and metres	Recognise when it is
	-time (hours, minutes,	Find different	give change, using	different units of		possible to use
	seconds)	combinations of coins		measure (e.g.		

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	Recognise and know the value of different denominations of coins and notes Tell the time to the hour and half past the hour and draw the hands on a clock face to show these times. Recognise and use language relating to dates, including days of the week, weeks, months and years	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 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.	both £ and p in practical contexts Tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour clocks Know the number of seconds in a minute and the number of days in each month, year and leap year	kilometre to metre; hour to minute)	Solve problems involving converting between units of time Convert between different units of metric measure (e.g. km and m; cm and m; cm and kg; I and mI) Understand and use equivalences between metric units and common imperial units such as inches, pounds and pints	formulae for area and volume of shapes 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
Key Vocab Bigger, smaller, taller, shorter	Key Vocab Length/ height/ width mass/ weight capacity/ volume long/ short, taller/ shorter, double/ half heavy/ light, heavier, lighter full/ empty, more than, less than, half, full, quarter before and after, next, first, today, yesterday, tomorrow,	Key Vocab cm/ m g/ kg ml/ l degrees (Celsius) thermometer change price, cost, money analogue, clockwise, anticlockwise, five minute intervals	Key Vocab a.m./p.m., morning, afternoon, noon and midnight, duration, leap year mm perimeter approximately roman numerals to XII, analogue clock digital clock	Key Vocab area rectilinear shapes 24 hour(s) convert conversion rectilinear dimensions kilometre 24-hour clock	Key Vocab composite rectilinear shapes metric units: cm², cm³, m², m³ imperial units: inch, pound, yard, mile, pint	Key Vocab mm³ km³ speed

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morning, afternoon,				Qima y Aca
evening,				7.55
hours, minutes,				
seconds, hour (hand),				
minute (hand), early,				
earlier, late, later,				
clock (face), oʻclock,				
half past, birthday,				
watch, year, month,				
week, weekend, day,				
Monday, Tuesday,				
Wednesday,				
Thursday, Friday,				
Saturday, Sunday,				
January, February,				
March, April, May,				
June, July, August,				
September, October,				
November,				
December,				
pounds/£, pence/p,				
coin, note, amount				





Geometry	/ - S	hapes
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Geometry - Snapes						
Rec	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Develop spatial awareness	Recognise and name common 2-D and 3-D shapes, including: -2D shapes [e.g. rectangles (including squares), circles and triangles] -3D shapes [e.g. cuboids (including cubes), pyramids and spheres].	Identify and describe the properties of 2D shapes, including the number of sides and line symmetry in a vertical line Identify and describe the properties of 3D shapes, including the number of edges, vertices and faces Identify 2D shapes on the surface of 3D shapes, [for example, a circle on a cylinder and a triangle on a pyramid] Compare and sort common 2D and 3D shapes and everyday objects	Draw 2D shapes and make 3D shapes using modelling materials; recognise 3D shapes in different orientations and describe them Recognise angles as a property of shape or a description of a turn Identify right angles, recognise that two right angles make a half-turn, three 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	Identify lines of symmetry in 2D shapes presented in different orientations Complete a simple symmetric figure with respect to a specific line of symmetry Compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes Identify acute and obtuse angles and compare and order angles up to two right angles by size	Identify 3D shapes, including cubes and other cuboids, from 2D representations Draw given angles, and measure them in degrees (°) Use the properties of rectangles to deduce related facts and find missing lengths and angles Distinguish between regular and irregular polygons based on reasoning about equal sides and angles Know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles 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°)	Recognise, describe and build simple 3D shapes, including making nets Illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius Draw 2D shapes using given dimensions and angles Compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals, and regular polygons Recognise angles where they meet at a point, are on a straight line, or are vertically opposite,

<u> Progression of Skills - MATHS</u>

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1						-other multiples of 90°	and find missing angles	Qiinary Acades
	Key Vocab 2D and 3D shape names Curved, straight, corners	Key Vocab Line, straight, curved, rectangle, square, circle, triangle, oval, star, cube, cuboid, pyramid, sphere, side, corners, face, edges, vertex, vertices, pattern	Key Vocab surface, vertical/horizontal symmetry, polygon, pentagon, hexagon, prism, quadrilateral	Key Vocab angles right angle, horizontal, vertical, perpendicular, parallel, orientation, polyhedron, polyhedra, degree(s) quadrilateral	Key Vocab reflex angle, obtuse angle, acute angle, heptagon, octagon nonagon decagon isosceles, regular irregular reflex	Key Vocab degrees °, 180 °, 360 °, dimension, orientation, diagonal, reflection X-axis Y-axis	Key Vocab nets radius, diameter, circumference, dissect(ion)	





Geometr	y -	Positi	on &	Direction	
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Geometry			- Position &	Direction		
Rec	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
	Describe position, direction and movement, including half, quarter and three-quarter turns.	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 anticlockwise) order and arrange combinations of mathematical objects in patterns and sequences		Describe positions on a 2D 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.
Key Vocab On top of, under, next to, above, in between	Key Vocab Whole turn, half turn, quarter turn, three quarter turn, right, left, top, bottom, on top, in front, above, between, around, near, close, far, up, down, forwards, backwards, inside,	Key Vocab north, south, east, west, sequence, clockwise, anti- clockwise, rotate, rotation, right angle	<u>Key Vocab</u>	Key Vocab coordinates axis/axes quadrant plot grid scale translate/ translation x-axis, y-axis,	Key Vocab reflect/ reflection	Key Vocab four quadrants vertically opposite, complimentary angles





outside, in front of, behind, around





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Statistics						
Rec	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
		Interpret and construct simple pictograms, tally charts, block diagrams and simple tables 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	Interpret and present data using bar charts, pictograms and tables Solve one-step and two-step questions [e.g. 'How many more?' and 'How many fewer?'] using information presented in scaled bar charts and pictograms and tables.	Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs.	Complete, read and interpret information in tables, including timetables Solve comparison, sum and difference problems using information presented in a line graph	Interpret and construct pie charts and line graphs and use these to solve problems Calculate and interpret the mean as an average
<u>Key Vocab</u>	<u>Key Vocab</u>	Key Vocab count, sort, tally, vote, data, graph, block diagram, pictogram, represent, group set, same, different, list, table, title, most popular, least popular, most common, least common, Venn diagram, Carroll diagram	Key Vocab axis, axes, diagram, interpret, category, scale	Key Vocab line graph continuous data	<u>Key Vocab</u>	Key Vocab average, mean pie chart construct, data set





	Algebra							
Rec	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6		
	Not taught discreetly Solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as 7 = ? - 9 (copied from Addition and Subtraction)	*Not taught discreetly* Recognise and use the inverse relationship between addition and subtraction and use this to check calculations and missing number problems. (copied from Addition and Subtraction)	*Not taught discreetly* Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction. (copied from Addition and Subtraction) Solve problems, including missing number problems, involving multiplication and division, including integer scaling (copied from Multiplication and Division)	*Not taught discreetly* Perimeter can be expressed algebraically as 2(a+b) where a and b are the dimensions in the same unit. (Copied from NSG measurement)	*Not taught discreetly* Use the properties of rectangles to deduce related facts and find missing lengths and angles (copied from Geometry: Shape)	Express missing number problems algebraically Find pairs of numbers that satisfy number sentences involving two unknowns Enumerate all possibilities of combinations of two variables Use simple formulae Generate and describe linear number sequences		
<u>Key Vocab</u>	<u>Key Vocab</u>	<u>Key Vocab</u>	<u>Key Vocab</u>	<u>Key Vocab</u>	<u>Key Vocab</u>	Key Vocab Linear number sequence substitute variables symbol known values letter formula(e) algebraic(ally) equation		

The Kile Accidenty Tour Twist India Together	Progression of Skills - MATHS						
4						unknown, constant, generalise	Plina y Academi