Sandridge School Maths Vocabulary Progression Map

- Using correct mathematical language is crucial for thinking, learning and communicating mathematically.
- We encourage children to explain what they are doing and why they are doing it.
- When children are first introduced to new vocabulary, it is not essential that children remember these words - but this modelling will help them become familiar with the terms, gradually beginning to use them accurately and with understanding in later years.

Number – Place Value

	Reception	**Year 1**	**Year 2**	**Year 3**	**Year 4**	**Year 5**	**Year 6**
Curriculum vocabulary expectation	Zero, numbers, one, two, three…to twenty and beyond, teens numbers, eleven, twelve and beyond, none, how many…? Count, count (up) to, count on (from, to), count back (from, to) count in ones, twos, fives, tens, is the same as, more, less, odd, even, few, pattern, pair Ones, tens, digit, the same numbers as, as many as, more, larger, bigger, greater, fewer, smaller, less, fewest, smallest, least, most, biggest, largest, greatest, one more, ten more, one less, ten less, compare, order, size, first, second, third…twentieth, last, last but one, before, after, next, between	Ten more/less, digit, numeral, figure(s), compare, (in) order/a different order, size, value, between, halfway between, above, below, tens, ones	Numbers to one hundred, hundreds, partition, recombine, more/less	Numbers to one thousand	Tenths, hundredths, decimal (places), round (to nearest), thousand more/less than, negative integers, count through zero, Roman numerals I to C	Powers of 10	Numbers to ten million
	Number	Place Value	Place Value	Place Value	Place Value	Place Value	Place Value
Vocabulary that is explicitly taught and reinforced in class	Number Zero, one, two, three… to twenty and beyond. None Count on/up/to/from/down Before, after More, less, many, few, fewer, fewest, smaller, smallest Equal to, the same as Odd, even Digit Numeral Compare Order Size Value Between Halfway between	Place Value Digits Tens and Ones Tens Frames Part Whole Model Base 10 Compare Comparison Symbols Equal to Less than More than Representation Partition Forwards Backwards Before After One More One Less Sort Number Line Less / Fewer More / Greater Comparison/inequality Symbols Numerals Partition Order Count in 2s Count in 5s	Place Value Digit Tens and Ones Numeral Number Line Less / Fewer More / Greater Compare Representation Comparison/Inequality Symbols Partition Strategy Ten Frames Place Value Counters Base 10 Part Whole	Place Value Digit Numerals Hundreds, Tens and Ones Number Track Less / Fewer Comparison/Inequality Symbols More / Greater Compare Strategy Partition Representation Ten Frames Part Whole Place Value Counters Place Value Chart Base 10	Place Value Digit Numerals Thousands, Hundreds, Tens and Ones Base 10 Number Track Less / Fewer More / Greater Compare Comparison/Inequality Symbols Partition Strategy Ten Frames Place Value Counters Place Value Chart Part Whole Exchange Roman Numerals Representation Negative Numbers Estimate Rounding to 10 Rounding to 100 Rounding to 1,000 Multiples	Place Value Digit Numerals Millions, Hundred Thousands, Ten Thousands Sequence Compare Integers Representation Place Value Counters Strategy Partition Negative Numbers Place Value Chart Power of 10 Exchange Roman Numerals Estimate Rounding to 10 Rounding to 100 Rounding to 1,000 Rounding to 100,000 Multiples Approximate	Place Value Digit Numerals Millions, Hundred Thousands, Ten Thousands Sequence Compare Integers Representation Place Value Counters Strategy Partition Negative Numbers Place Value Chart Power of 10 Exchange Roman Numerals Estimate Rounding to 10 Rounding to 100 Rounding to 1,000 Rounding to 100,000 Multiples Approximate

Number: Addition and Subtraction

	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Curriculum vocabulary expectation	Add, more, and, make, sum, total, altogether, double, one more, two more…ten more, how many more to make…? How many more is…than…? How much more is…? Take away, how many are left/left over? How many have gone? One less, two less, ten less… how many fewer is…than…? How much less is….? Difference between	Number bonds, number line, add, more, plus, make, sum, total, altogether, inverse, double, near double, equals, is the same as (including equals sign), difference between, subtract, take away, minus How many more to make …? How many more is … than ... ? How much more is ... ? How many fewer is … than… ? How much less is … ?		Column addition and subtraction		Efficient written method	Order of operations
Vocabulary that is explicitly taught and reinforced in class	Number line Add More Plus Make Sum Total Altogether Double Half Halve Equals, is the same (including equals sign) How many more to make…? How many more is…than…? How much more is…? Subtract Take away Minus	Addition Symbol Subtraction Symbol Equals Symbol Part Whole Model Partition Number Sentence Fact Families Systematic Comparing Inequality Symbols Total Counting On Number Bonds Ten Frames Number Line Part-whole Model Bar Model Partition Number Sentence Related Facts Systematic Strategy Counting on Making 10 Commutativity	Addition Symbol Subtraction Symbol Equals Symbol Part Whole Model Partition Number Sentence Fact Families Systematic Comparing Inequality Symbols Total Counting On Number Bonds Consecutive Concrete Objects Bar Model Calculation Inverse Related Facts Bonds to 100 Ten Frames Pattern Number Track/Line Efficient Sum Exchange Crossing 10	Addition Subtraction Equals Column addition Column subtraction Multiples of 100 Multiples of 10 Efficient Method Exchange Estimate Near numbers Inverse Inequality symbols	Addition Subtraction Equals Column Method Method Efficient Rounding Exchange Sum Inverse Operations	Addition Subtraction Equals Column Method Place Holder Estimate Approximate Key Vocabulary Multistep Problems Efficient Exchange Sum Inverse Operations	Addition Subtraction Equals Four Operations Order of Operations

Number: Multiplication and Division

	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Curriculum vocabulary expectation	Sharing, doubling, halving, number patterns	Once, twice, three, five times, multiple of times Multiply, multiply by, repeated addition, array, row, column, double, halve, share, share equally, group in pairs, threes, etc., equal groups of, divide, divided by, left over		Product, multiples of four, eight, fifty and one hundred, scale up	Multiplication facts (up to 12x12), division facts, inverse, derive	Factor pairs, composite numbers, prime number, prime factors, square number, cubed number, formal written method	Common factors and common multiples
Vocabulary that is explicitly taught and reinforced in class	Odd Even Double Halve Share Share equally Group in pairs Equal groups of Divide Difference	Multiplication Repeated Addition Multiplication Symbol Multiply Equal Equal Groups Lots of Rows Columns Arrays Double Divide / Division Multiples of 2 Multiples of 5 Multiples of 10 Division symbol Sharing Grouping Total How many altogether?	Equal Groups Equal Groups Repeated Addition Repeated Addition Multiplication Addition Multiplication Symbol Multiply Lots Of... Arrays Commutative Law Two Times Tables Five Times Tables Ten Times Tables Multiplication/Multiply Division/Divide Multiplication Symbol Division Symbol Equal groups Sharing Grouping Halving Doubles Number Sentences Repeated Addition Equal Odd Numbers Even Numbers Patterns	Multiply Multiplication Symbol Divide Division Symbol Equal groups Repeated Addition Multiplier Multiplicand Product Arrays Commutative Law Distributive Law Scaling Partitioning Tens and Ones Compare Inequality Symbols Related Facts Exchange Remainder Equal Groups Equal Groups Repeated Addition Repeated Addition Multiplication Symbol Multiply Lots Of... Arrays Commutative Law Three Times Tables Four Times Tables Eight Times Tables Division Symbol Divide Sharing Grouping Inverse Concrete Methods Pictorial Methods Distributive Law Multiplier Multiplicand Product	Equal groups Repeated Addition Multiply Eleven Times Table Twelve Times Table Divide Array Multiplier Multiplicand Product Commutative Law Distributive Law Division Facts Dividend Divisor Quotient Multiple Factor Factor Pairs Partitioning Exchange Remainder Lots of Six times table Seven times table Nine times tables Sharing Grouping Division facts Inverse Concrete methods Pictorial methods Fact family	Multiplication Divide Equals Equal groups Division facts Divisor Dividend Quotient Place holder Lots of Arrays Multiplier Multiplicand Ascending Descending Consecutive Product Commutative Law Short Division Long Division Factors Division Facts Inverse Concrete Methods Pictorial Methods Distributive Law Remainder Common Factors Common Multiples Prime Number Composite Numbers Square Numbers Multiples Area Model Long Multiplication Integer	Four Operations Integers Multiplication Short Division Long Division Factors Common Factors Common Multiples Prime Number Composite Numbers Square Numbers Multiples

Fractions: including decimals and percentages

	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Curriculum vocabulary expectation	Parts of a whole, half	Whole, equal parts, four equal parts, one half, two halves, a quarter, two quarters	Three quarters, one third, a third, equivalence, equivalent	Numerator, denominator, unit fraction, non-unit fraction, compare and order, tenths	Equivalent decimals and fractions	Proper fractions, improper fractions, mixed numbers, percentage, half, quarter, fifth, two fifths, four fifths, ratio, proportion	Degree of accuracy, simplify
Vocabulary that is explicitly taught and reinforced in class	Whole Equal One half	Fraction Split Non-Equal Parts Whole Quantity A Quarter Half Total Amount Quarter Full Complete Equal Parts	Fraction Numerator Denominator Equal Unit fractions Non-unit fractions Whole Half Thirds Quarters Three quarters Equivalence ½ and 2/4 Quantity Equivalent fractions	Fraction Numerator Denominator Equal Unit Fractions Non-unit fractions Whole Halves Quarters Thirds Three Quarters Eighths Tenths Fraction Wall Quantity Decimals Equivalent Fractions Cuisenaire/Number rods Compare fractions (same numerator) Compare fractions (same denominator) Ascending Descending Order Fractions Halves Quarters	Fractions Numerator Denominator Equivalent Fractions Unit Fractions Non-unit fractions Proper fractions Improper fractions Mixed fractions Halves Quarters Eighths Fraction Wall Number Sequence Quantity Decimal Number Decimal Point Tenths Hundredths Place Value Chart Equivalent Intervals Rekenrek Compare Order Ascending Descending Inequality Symbols Rounding Halves Quarters	Fraction Numerator Denominator Equivalent Fractions Unit Fraction Non-Unit Fraction Proper fraction Improper fraction Mixed Fraction Fraction Wall Number Sequence Quantity Concrete Method Pictorial Method Abstract Method Fractions as Operators Common Denominator Flexible Partitioning Whole Number Integer Commutativity Decimal number Decimal point Decimal place Tenths Hundredths Thousandths Equivalent Intervals Number sequence Place value grid Percentage Convert Percent Quantity Compare Order Equivalent fraction, decimal and percentage	Fraction Numerator Denominator Equivalent Fractions Unit Fraction Non-Unit Fraction Proper fraction Improper fraction Mixed Fraction Fraction Wall Number Sequence Quantity Concrete Method Pictorial Method Abstract Method Fractions as Operators Common Denominator Flexible Partitioning Whole Number Integer Commutativity Decimal number Decimal point Decimal place Tenths Hundredths Thousandths Simplify Convert Integers Numerator Denominator Exchange percentage

Measurement

	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Curriculum vocabulary expectation	Measure, size, compare, guess, estimate, enough, not enough, too much, too little, too many, too few, nearly, close to, about the same as, just over, just under Metre, length, height, width, depth, long, short, tall, high, low, wide, narrow, think, thin, longer, shorter, taller, higher…and so on, longest, shortest, tallest, highest…and so on, far, near, close Weigh, weighs, balances, heavy, light, heavier than, lighter than, heaviest, lightest, scales Full empty, half full, holds, container Money, coin, penny, pence, pound, price, cost, buy, sell, spend, spent, pay Time, days of the week, day, week, birthday, holiday, morning, afternoon, evening, night, bedtime, dinner time, playtime, today, yesterday, tomorrow, before, after, next, last, now, soon, early, late, quick, quicker, quickest, quickly, slow, slower, slowest, slowly, old, older, oldest, new, newer, newest, takes longer, takes less time, hour, o'clock, clock, watch, hands	Time, days of the week, seasons, day, week, month, year, weekend, birthday, holiday, morning, afternoon, evening, night, midnight, bedtime, dinnertime, playtime, today, yesterday, tomorrow before, after, next, last, now, soon, early, late, quick, quicker, quickest, quickly , fast, faster, fastest, slow, slower, slowest, slowly, old, older, oldest, new, newer, newest, takes longer, takes less time, hour, o'clock, half past, clock, watch, hands, how long ago?, How long will it be to … ?, How long will it take to … ?, How often?, always, never, often, sometimes, usually, once, twice, first, second, third, etc., estimate, close to, about the same as, just over, just under, too many, too few, not enough, enough Length, width, height, depth, long, longer, longest, short, shorter shortest, tall, taller, tallest, high, higher, highest, Low, wide, narrow, deep, shallow, thick, thin, far, near, close, metre, ruler, metre stick How much?, How many?, money, coin, penny, pence, pound, price, cost, buy, sell, spend, spent, pay, change, dear(er), costs more, costs less, cheaper, costs the same as, total	Quarter past/to, 5 minutes, metres, kilometers, grams, kilograms, millimeters, liters, temperature, degrees	Leap year, twelve-hour/twenty-four-hour clock, Roman numerals I to XIII	Convert	Volume, imperial units, metric units	

Vocabulary that is explicitly taught and reinforced in class							
	Full Half full Empty Holds Container Weigh Weighs Balance Heavy, heavier, heaviest Light, lighter, lightest Scales Estimate Too many, too few Length Height Longer, longest Shorter, shortest Taller, tallest Higher, highest	Measurement Length Height Unit of measurement Non- standard unit of measurement Standard Units Ruler Compare Height Long / Longer Short / Shorter Tall / Taller Small / Smaller Same / Equal Centimetres	Measurement Unit of measurement Non-standard unit of measurement Standard Units Length Height Ruler Compare Height Long / Longer Short / Shorter Tall / Taller Small / Smaller Same / Equal Centimetres Kilograms / kg Gram / g Mass Weigh Balance Scales Scales Millilitres / ml Litres / l Volume Capacity Full Half Full Half Empty Empty More than Heavier Lighter Less than Equal to Temperature Degrees Centigrade / °C Warmer Colder Estimate Compare Thermometer	Mass Grams / g Weigh Heavier Full Scales Lighter Empty Intervals Volume Compare Increments Capacity More Than Units of Measurement Millilitres / ml Less Than Kilograms / kg Litres / l Equivalent Estimate	Length Kilometre / km Metre / m Perimeter Grid Rectilinear Width Dimension Area Surface Counting Squares 2DShape Square Corners Sides Right Angles Perpendicular Rectilinear Systematic Strategy	Units of Measurement Units Imperial Mass Length Height Width Capacity Volume Millimetres / m Kilometres / km ‘kilo’ ‘milli’ Kilograms / kg Grams / g Litres / l Millilitres / ml Centimetres / cm Metre / m Metric Compare Convert Cube Cuboid Estimate Cubic Centimetre cm3 Approximate Compare Three Dimensional Solid Ascending Descending Perimeter Grid Rectilinear Dimension Area Area- Counting Squares Formula for Area Compound/Composite Shapes Composite Rectilinear Shapes Irregular Shapes Area – Compound Shapes Area – Irregular Shapes Approximate	Area Perimeter Volume Length Width Perpendicular height Base Dimension Factor pairs Rectilinear Formula Layers of a 3d shape Cubic centimetres Cubic metres Associative law Area of a triangle Area of a parallelogram

	Money Coin Penny Pence Pound Price Cost Buy Sell Spend Spent Pay Change How much? How many? Total	Money Silver Coins Equal to Coins Copper Coins Most Notes Total Least Pounds Value Pence Worth	Money Currency Pence Pounds Decimal Point (discussed but this is not expected to be used) Partitioned Convert Silver Coins Copper Coins Difference Value Change Compare Equivalent	Money Pounds Convert Currency Change Equivalent Pence Partitioned Order Ascending Descending Estimate Underestimate Overestimate Round down Round up	Money Pence Pounds Convert Currency Decimal Point Equivalent Partitioned Order Ascending Descending Estimate Underestimate Overestimate Approximately Round down Round up		
	Time Days of the week: Monday, Tuesday etc. Seasons: Spring, Summer, Autumn, Winter Days Week Month Year Weekend Birthday Holiday Morning Afternoon Evening Night Bedtime, playtime Today, yesterday, tomorrow Before, after, next, last Quickest, fastest, slowest Clock O'clock Once First, second, third	Time Second Minute Hour Day Month Year Date First Next Today Yesterday Tomorrow Morning Afternoon Evening Before After Clock Time to the Hour Time to Half Past the Hour Slow/slower/slowest Quick/quicker/quickest Compare Earlier Later Chronological order Sequence Calendar Stopwatch	Time Second Minute Hour Day Month Year Date First Next Today Yesterday Tomorrow Afternoon Evening Morning Before After Clock Time to the hour Time to half past the hour Quarter past the hour Quarter to the hour Tell the time to 5 minutes Slow/slower/slowest Quick/quicker/quickest Compare Earlier Later Chronological order Sequence Calendar Stopwatch	Time Second Minute Hour Time to the hour Time to half past the hour Quarter past the hour Quarter to the hour Tell the time to 5 minutes Time to 1 minute Slow/slower/slowest Quick/quicker/quickest Compare Earlier Later Chronological order Sequence Calendar Leap year Twelve-hour/twenty-four-hour clock Roman numerals I to XIII Digital Analogue	Time Second Minute Hour Time to the hour Time to half past the hour Quarter past the hour Quarter to the hour Tell the time to 5 minutes Time to 1 minute Slow/slower/slowest Quick/quicker/quickest Compare Earlier Later Chronological order Sequence Calendar Leap year Twelve-hour/twenty-four-hour clock Roman numerals I to XIII Digital Analogue	Time Second Minute Hour Time to the hour Time to half past the hour Quarter past the hour Quarter to the hour Tell the time to 5 minutes Time to 1 minute Slow/slower/slowest Quick/quicker/quickest Compare Earlier Later Chronological order Sequence Calendar Leap year Twelve-hour/twenty-four-hour clock Roman numerals I to XIII Digital Analogue Difference	Time Second Minute Hour Time to the hour Time to half past the hour Quarter past the hour Quarter to the hour Tell the time to 5 minutes Time to 1 minute Slow/slower/slowest Quick/quicker/quickest Compare Earlier Later Chronological order Sequence Calendar Leap year Twelve-hour/twenty-four-hour clock Roman numerals I to XIII Digital Analogue Difference

Geometry: Properties of shape

	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Curriculum vocabulary expectation	Shape, pattern, flat, curved, straight, round, hollow, solid, sort, make, build, draw, size, bigger, larger, smaller, symmetrical, pattern, repeating pattern, match	Corner (point, pointed), face, side, edge, make, build, draw	Vertices, Size, bigger, larger, smaller, symmetrical, line of symmetry, fold, match, mirror line, reflection, pattern, repeating pattern	Horizontal, perpendicular and parallel lines	Quadrilaterals, triangles, right, acute and obtuse angles	Regular and irregular polygons	Vertically opposite (angles), circumference, radius, diameter
Vocabulary that is explicitly taught and reinforced in class	Sort Cube Cuboid Pyramid Sphere Cone Cylinder Circle Triangle Square Shape Flat Curved Straight Round Solid Corner Face Side Make Build Draw	Shape 2-D Shape 3-D Shape Sides Vertex/Vertices Corner Core of a Pattern Faces Edges Orientation Sorting Patterns Square Rectangle Triangle Pentagon Hexagon Circle Cube Cuboid Sphere Cylinder Pyramid Cone	Shape 2-D Shape 3-D Shape Sides Faces Edges Vertex/Vertices Symmetrical Non-symmetrical Vertical Vertical line of symmetry Orientation Sorting Patterns Square Rectangle Triangle Pentagon Hexagon Circle Cube Cuboid Sphere Cylinder Pyramid Cone	Shape 2-D Shape 3-D Shape Sides Faces Edges Vertex/Vertices Symmetrical Non-symmetrical Vertical Vertical line of symmetry Orientation Sorting Patterns Square Rectangle Triangle Pentagon Hexagon Circle Cube Cuboid Sphere Cylinder Pyramid Cone Angle Right Angle Acute Angle Obtuse Angle Horizontal Line Vertical Line Perpendicular Line	Shape 2-D Shape 3-D Shape Sides Vertex/Vertices Symmetrical Non-symmetrical Symmetric Figures Vertical line of symmetry Faces Edges Classify Sorting Patterns Square Rectangle Triangle Pentagon Hexagon Polygon Cube Cuboid Sphere Cylinder Pyramid Cone Isosceles Scalene Equilateral Angle Right Angle Acute Angle Obtuse Angle Orientation Horizontal Line Vertical Line Perpendicular Line	Isosceles Scalene Equilateral Angle Right Angle Acute Angle Obtuse Angle Orientation Horizontal Line Vertical Line Perpendicular Line Perimeter Area Polygon Regular Irregular	Isosceles Scalene Equilateral Angle Right Angle Acute Angle Obtuse Angle Orientation Horizontal Line Vertical Line Perpendicular Line Vertically opposite (angles) Circumference Radius Diameter

Geometry: Position and Direction

	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Curriculum vocabulary expectation	Position, over, under, above, below, top, bottom, side, on, in, outside, inside, around, in front, behind, front, back, beside, next to, opposite, apart, between, middle, edge, corner, direction, left, right, up, down, forwards, backwards, sideways, across, next to, close, near, far, along, through, to, from, towards, away from, movement, slide, roll, turn, stretch, bend, whole turn, half turn	Before, after, beside, next to, opposite, apart, between, middle, edge, centre, corner, direction, journey, left, right, up, down, forwards, backwards, sideways, across, close, far, near, along, through, to, from, towards, away from, movement, slide, roll, turn, whole turn, half turn, stretch, bend	Rotation, clockwise, anticlockwise, straight line, ninety degree turn, right angle	Greater/less than ninety degrees, orientation (same orientation, different orientation)	Co-ordinate, translate, quadrant, X-axis, Y-axis, perimeter, area	Reflex angle, dimensions	Four quadrants (for co-ordinates)
Vocabulary that is explicitly taught and reinforced in class	Over Under Underneath Above Below Top Bottom Side On In Outside Inside In front Behind Front Back Before After Beside Next to Middle Up Down Forwards Backwards Sideways Close Far Through Towards Away from Side Roll Stretch Bend Turn (whole, half)	Position Direction Up Down Forwards Backwards Left Right Turn Full turn Half turn Quarter turn Three quarter turn Clockwise Anti-clockwise Inside Outside In front of Behind Above Below	Position Direction Up Down Forwards Backwards Left Right Full Turn Half Turn Quarter Turn Three-Quarter Turn Clockwise Anti-Clockwise Patterns	Turns Quarter Turn Half Turn Three-quarter Turn Full Turn Clockwise Anti-clockwise	Turns Quarter Turn Half Turn Three-quarter Turn Full Turn Clockwise Anti-clockwise Position Direction Up Down Forward Backward Up Down Left Right Axes x-axis y-axis Co-ordinates First Quadrant Vertex/vertices Translate Translation	Position Direction Right Left Axes x-axis y-axis Co-ordinates First Quadrant Vertex/vertices Translate Translation Reflection Horizontal Mirror Line Vertical Mirror Line	Position Direction Grid First Quadrant Co-Ordinates Axes x axis y axis Vertex/Vertices Four Quadrants Positive Co-ordinates Negative Co-ordinates Origin Orientation Symmetry Polygon Equidistant Reflection Translation Congruent Vertical Mirror Line Horizontal Mirror Line

Statistics

	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Curriculum vocabulary expectation	Count, sort, group, set, list		Count, tally, sort, vote, graph, block graph, pictogram, represent, group, set, list, table, label, title, most popular, most common, least popular, least common	Chart, bar chart, frequency table, Carroll diagram, Venn diagram, axis, axe	Continuous data, line graph		Mean, pie chart, construct
Vocabulary that is explicitly taught and reinforced in class	Count Sort Group Set List	Pictogram Most Popular Least Popular Total Altogether More Less	Statistics Tally Chart Total Altogether More Less Difference Pictogram Horizontal Pictogram Vertical Pictogram Symbol Key (Pictogram) Block Diagram Results Questions Value Interpret Data Scale Interval Most Popular Least Popular Table	Statistics Key (Pictogram) Interval Pictogram Bar Chart Most popular Value Interpret Least popular Symbol Data Tally Chart Result Scale Table	Statistics Key (Pictogram) Interval Pictogram Bar Chart Value Interpret Least Popular Most Popular Symbol Data Tally Chart Result Scale Table Axis Information Present Data Discrete Data Comparison Sum Difference Line Graphs	Statistics Key (Pictogram) Interval Pictogram Bar Chart Most Popular Least Popular Value Interpret Symbol Data Tally Chart Result Scale Table Axis Information Present Data Discrete Data Comparison Sum Difference Line Graphs Two-way Table	

Ratio and proportion – only appears in year 6 but should be connected to previous learning particularly fractions and multiplication and division

	Reception		Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Curriculum vocabulary expectation								Ratio Proportion Compare Order of parts Symbol Calculate Scale factor Double Triple
Vocabulary that is explicitly taught and reinforced in class								Ratio For every Number Compare Fraction Numerator Denominator Order of parts Symbol Calculate Bar models Represent Part Whole Scale factor Shape 2D Enlargement Double Triple Angle Size Multiplication Division Length Width Relative size Missing values Integer multiplication

Algebra

	Reception		Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Curriculum vocabulary expectation								Linear number sequence, substitute, variables, symbol, known values
Vocabulary that is explicitly taught and reinforced in class								Algebra Functions Function Machine One-step Function Machine Two-step Function Machine Operator Value Input Output Equation One-step Equation Two-step Equation Variable Formula Algebraic Expressions

Problem Solving vocabulary

Start from, look at, point to, Put, What comes next?, Find, use, make, build, Tell me, describe, pick out, talk about, explain, show me, Read, write, Tick, draw a line, ring, Cost, Count, work out, Number line, number track, number square, number cards

Change, change over, split, separate, carry on, continue, repeat, what comes next?, find, choose, collect, use, make, build

Tell me, describe, pick out, talk about, explain, show me, read, write, record, trace, copy, complete, finish, end, fill in, shade, colour, tick, cross, draw, draw a line between, join (up), ring, arrow

Cost, count, work out, answer, check same number(s)/different number(s)/missing number(s)

Number facts, number line, number track, number square, number cards, abacus, counters, cubes, blocks, rods, die, dice, dominoes, pegs, peg board

Same way, different way, best way, another way, in order, in a different order, not all, every, each

Predict, describe the pattern, describe the rule, find, find all, find different, investigate