Mathematical Language Progression

Place Value						
FS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Number Match Most Least Fewer One less One more Count on Count back	**All Blocks** Least Digit Count on Fewer Number One less Value Count back Compare Order Match One more Most Greater than > Less than < Equal to = **Within 10** Value Digit Compare Order Greater than > Less than < Equal to =	Numerals More Less Count Fewer Digit Number Least >is greater than = is equal to <is less than Tens Ones Place Value Chart Partition	Exchange Tens Ones Partition Place Value Greater than > Less than < Equal to = Hundreds	Ones Tens Hundreds Partition >is greater than = is equal to <is less than Thousands Compare Multiple of 10/100/1000	Round to the nearest… Partition Place Value Thousands Tens thousands Hundred thousand Understand the difference between a digit and a number.	Less than < Greater than > Zero (0) Parition Round Digit Ten thousands (10,000s) Hundred thousands (100,000s) Negative Millions (1,000,000s) Ten million (10,000,000)

	Within 20 Tens Ones Exchange **Within 50** Number names and numerals to 50 Partition **Within 100** Number names and numerals to 100 Partition				

Addition and Subtraction						
FS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
How many?	**Within 10**	Number bonds	Add	Add	Difference	Sum
Total	How many?	Ones	Subtract	Total	Place value column	
Part	Total	Tens	Ones	Sum	Tens (10s)	Difference
Take away	Part	More	Tens	Subtract	Ten thousands	
Partition	Take away	Column	Hundreds	Difference	(10,000s)	Estimate
Number sentence	Partition	Number sentence	Partition	Exchange	How many more?	
Count all	Number sentence		Less than<		Sum	
First, then, now	Count all	Add	Greater than >	Estimate	Estimate	Priority
Whole	First, then, now	Total	Equal to =	Previous multiple	Exchange	Order of operations
	Whole	More	Fewer	of		
	Plus	Altogether	Altogether	Next multiple of		
	Add +	Sum		Inverse		
	Add more	How many more?	Column method			
	Subtract –		Exchange			
	Count on	Subtract	Inverse			
	Count back	How many less?				
	Within 20	Take away				
	How many are not?	Minus				
	Count back	Reduce				
	Number bond	Difference				
	Add +					
	Whole					
	Part					
	Subtract –					
	First, then, now					
	Count on					
	Total					
	How many more?					
	Difference					
	Partition					

Multiplication and Division						
FS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Equal Count Group Share Double Equally Unequal	Equal Count Group Share Double Equally Unequal Array Column Row	Equal groups Column Multiplication Lots of Rows Equal parts Total Times-table Unequal groups Array Times x …times as … Divide ÷ Division	**A** Times Multiply Array Lots of Times-tables Divide Groups of Grouping Sharing Product Multiple **B** Times Times-table Multiply Lots of Array Grouping Sharing Divide Groups of Remainder	Multiply Multiple Times Product Times table Array Lots of Divide Sharing Grouping Groups of Commutative **Multiplication and Division B** Divide Times-table Sharing Lots of Array Multiply Groups of Times Total Grouping	**A** Even Odd Divide Multiply Place value column Prime Composite Common factor Common multiple Square (number) Cube (number) Tens times greater One thousand times smaller **B** Groups of Multiply Digit Partition Exchange Share equally Remainder Divide Product	Multiply Product Array Times Table Factor Common Multiple Prime Divide Grouping Remainder Sharing Divisible Estimate Priority Order of operations

Shape						
FS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
2-D shape	2-D shape	2-D	Clockwise	Clockwise	Angle	Angle
3-D shape	3-D shape	3-D	Anti-clockwise	Anti-clockwise	Faces	Acute
Circle	Circle	Face	Quarter turn	Quarter turn	Regular	Obtuse
Triangle	Triangle	Sides	Half turn	Half turn	Quarter turn	Right
Square	Square	Surface	Three-quarter turn	Three-quarter turn	Polygon	Reflex
Rectangle	Rectangle	Curved surface	Full turn	Full turn	Acute	Protractor
Sphere	Sphere	Circle	Face	Right angle	Right angle	Faces
Cone	Cone	Square	Edge	Acute	Irregular	Irregular
Cylinder	Cylinder	Sphere	Vertex	Obtuse	Cuboid	Polygon
Cube	Cube	Pyramid	Curved surface	Polygon	Obtuse	Cube
Cuboid	Cuboid		Angle	Isosceles	Cube	Regular
Pyramid	Pyramid	Polygon	Acute	Scalene	Vertices	Cuboid
		Vertex	Right angle	Equilateral	Reflex	Quadrilateral
	Face	Vertices (2D and 3D)	Obtuse	Quadrilateral	Protractor	Isosceles triangle
	Pattern		Horizontal	Regular		Net
	Repeat	Edge	Vertical	Irregular		Vertically opposite angles
	Curved		Parallel			
	Flat	Quadrilateral	Perpendicular			
		Prism				

Area, Perimeter and Volume						
FS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Length and Height	**Length and Height**	**Length and Height**	**Length and Perimeter**	**Area**	**Perimeter and Area**	Area
Compare	Compare	Taller	Centimetres (cm)	Count	Rectilinear	Square
Length	Length	Length	Metres (m)	Length	Perimeter	Volume
Longest	Longest	Equal to	Height	Side	Area	Triangle
Tall	Tall	Shorter	Length	Array	Millimetres (mm)	Parallelogram
Shortest	Shortest	Measurement	Compare	Columns	Polygon	Cuboid
Height	Height	Longer	Ruler	Row	Formula	Formula
Equal	Equal	Height	Greater than >	Larger	Compound	Perimeter
Tallest	Tallest	Distance	Less than <	Length	Square centimetres (cm²)	
	Measure	Centimetre (cm)	Equal to =	Smaller	Square metres (m²)	Perpendicular
Mass and Volume	Centimetre (cm)	Metre (m)	Measure	Area	Square millimetres (mm²)	Square Units
Heavier	Unit		Equivalent	Rectilinear		Square metres (m²)
Weigh	Ruler	**Mass, Capacity and Temperature**	Convert			Cubic Units
Lightest		Mass	Millimetres (mm)	**Length and Perimeter**	**Volume**	Cubic centimetres (cm³)
Heaviest	**Mass and Volume**	Equal to	Perimeter	Length	Volume - The amount of solid space an object occupies	
Lighter	Heavier	Lighter than		Less than <	Capacity – the amount a container can hold	
Half full	Weigh	Heavier than	**Mass and Capacity**	Greater than >	Equal to =	
	Lightest	Weigh	Mass	Distance	3-D shape	
Mass (can be used interchangeably with weight at this stage)	Heaviest	Balanced	Compare	Millimetres (mm)	Less than <	
	Lighter	Volume – amount of space taken up by an object	Mass	Centimetres (cm)	Greater than >	
	Half full	Capacity – the amount of a liquid or pourable material that a container can hold	Kilograms (kg)	Metres (m)	Cubic centimetre cm²	
	Mass (can be used interchangeably with weight at this stage)	Grams (g)	Grams (g)	Height	Cubic metre m³	
	Volume – amount of space taken up by an object	Kilograms (kg)	Measurement	Equivalent		
	Capacity – the amount of a liquid	Litres (l)	Weigh	Measure		
			Estimate	Equal to =		
			Millilitres (ml)	Perimeter		
			Litres (l)	Ruler		
			Capacity – the maximum amount	Compare		
				Kilometres (km)		

or pourable material that a container can hold Balanced	Millilitres (ml) Degrees Centigrade °c	of space within a container Volume – the actual amount of space being taken up within a container. *children will only consider the volume of liquids.	Rectilinear - A 2-D shape that has straight sides and right angles Regular – the sides are all the same length and angles are the same size. Irregular – a shape with sides of different lengths or angles of different sizes (e.g. a rectangle).		

Ratio						
FS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
						Ratio Simplest form Scale factor Similar Enlarge

Converting Units						
FS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
					Divide by 1,000	Mass
					Multiply by 1,000	Capacity
					1/10 of an litre	Metric
					0.4 of an hour	Gram
					Kilo- means thousand	Millimetre
					Kilogram	Units
					kilo	Convert
					Milli – means thousandth	Kilometre
					Millimetre	Metre
					Millilitre	Imperial
					Imperial unit	Pounds (lbs)
					Inch	Stone
					Length	Feet
					Pound (lb)	Gallon
					Mass	Inch
					Pint	Pint
					Capacity	
						Approximate conversions
						Approximately equal to ≈

Money						
FS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Money Pound £ Pence p Coin Note	Greater than > Less than < Money Worth Pound £ Pence p Value Worth Amount Coins	Pence (p) Pounds (£) Difference Amount Buy Coins Left Money Value Notes How much? Change	More Pounds (£) Convert Amount Total Less Pence (p) Change Cost Change Coin Note Value Exchange Difference	Estimate Approximate Round Pounds £ Pence p Convert Decimal point *new in the context of money		

Algebra						
FS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
						Formula Substitute Expression Equation Input Output Solve Solution

Fractions, Decimals and Percentages						
FS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Share	Share	**Fractions**	**Fractions A**	**Fractions**	**Fractions A**	**Fractions A**
Equal	Equal	Equal to	Unit fraction	Unit fraction	Greater than >	Whole
Unequal	Unequal	Whole	Less than <	Denominator	Factor	Part
	Whole	Grouping	Greater than >	Whole	Denominator	Numerator
	Part	Dividing by	Equal to =	Equal parts	Numerator	Denominator
	Half	Quarter	Half	Numerator	Repeated addition	Less than <
	Quarter	Half	Quarter	Non-unit fraction	Multiply	Greater than >
		Parts	Third	Equivalent	Improper	Improper fraction
		Sharing	Whole	Mixed number	Mixed	Proper fraction
		½	Denominator	Improper fraction		Mixed number
		¼	Numerator		**Fractions B**	
		Thirds 1/3	Fifth	**Decimals A**	Non-unit fraction	Highest common factor
		Unit fraction	Sixth	Ones	Numerator	Lowest common multiple
		Non-unit fraction	Sevenths	Tenths	Part	Simplify
		Denominator	Eighth	Fraction	Unit fraction	
		Numerator	Equivalent	Equivalent	Multiply	**Fractions B**
				Decimal	Denominator	Multiply
			Fractions B	Decimal point	Whole	Divide
			Numerator	Hundredths	Mixed number	Share
			Denominator		Integer	Lots of
			Whole	**Decimals B**	Commutative	Denominator
			Unit fraction	Decimal		Numerator
			Non-unit fraction	Tenths	**Decimals and Percentages**	Mixed number
			Equal parts	Whole	Tenths	Improper fraction
			Partition	Fraction	Decimal place	
			Sum	Hundredths	Fraction	Integer
			Altogether	Equivalent	Part	Whole numbers
			Subtract	Decimal point	Hundredths	Fractions
			Difference	Greater than >	Digits	**Decimals**
			Total	Equal to =	Place value	
				Less than <		

				Round Partition	<mark>Thousandths</mark> <mark>Percentage</mark> <mark>Percent</mark> <mark>%</mark> **Decimals** Sum Tenths Thousandths Altogether Decimal place Decimal point Subtract Add Hundredths Difference <mark>Ten times greater</mark> <mark>One thousand</mark> <mark>times smaller</mark>	Integer Thousandth Hundreth Tens Tenth Ones Decimal point **FDP** Tenth Hundredth Fraction Decimal Percentage Divide Division Convert Equivalent <mark>Recurring</mark>

Statistics						
FS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
		Horizontal Vertical Tally Tally chart Pictogram Block diagram Key Table	Column Table Symbol Tally chart Key Row Pictogram Bar chart Horizonal axis Vertical axis Scale	Pictogram Horizontal axis Symbol Vertical axis Tally chart Bar chart Row Table Scale Key Sum Difference Line graph Plot Read	Timetable Scale am pm Minute Hour Line graph Data Axes Two-way table	Scale Line graph Dual bar chart Percentage Axis/axes Key Pie Chart Mean

Negative Numbers						
FS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
					Multiple Number line Greater than > Less than < Difference Negative *Do not use minus	

Position and Direction						
FS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Directional language	**Directional language**	**Positional language**		Horizotal	Mirror line	y-axis
Full turn	Full turn	Up		Vertical	Reflection	Left
Half turn	Half turn	Over		Down	Points	Points
Quarter turn	Quarter turn	Forwards		Up	Vertices	Coordinates
Left	Three-quarter turn	Beneath		Vertex	Axis	x-axis
Up	Left	Under		x-axis	x-axis	Translation
Backwards	Up	Left		y-axis	y-axis	Mirror line
Forwards	Backwards	Right		Coordinates	Translation	Right
Right	Forwards	Beside		Translate	Origin	Reflection
Down	Right	Backwards		Axes	Coordinates	Vertices
Positional language	Down	Down			y-value	Quadrant
Left	**Positional language**	**Directional language**			x-value	First Quadrant
Right	Left	Forwards			object	Second Quadrant
Up	Right	Backwards			image	Third Quadrant
Down	Up	Up				Fourth Quadrant
Forwards	Down	Down				
Backwards	Forwards	Left				
Above	Backwards	Right				
Below	Above	Full turn				
Under	Below	Half turn				
Over	Under	Quarter turn				
Between	Over	Three-quarter turn				
First	Between	Clockwise				
Second	First	Anticlockwise				
Third	Second					
Fourth	Third					
	Fourth					

			Time			
FS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Days of the week Months of the year Morning Before Quicker Evening Next Today Slower Yesterday Now Then Later After First Tomorrow Earlier Afternoon	O'clock Half past Days of the week Months of the year Morning Before Quicker Evening Next Today Slower Yesterday Now Then Later After First Tomorrow Earlier Afternoon	Half past Minute O'clock Hour Day Analogue Quarter past Quarter to Intervals	Morning Night Evening Afternoon Midday Noon Midnight Minutes past Minutes to Relationship between units of time changing/ never changing Minutes Months Weeks Hours Days Years Seconds Duration Leap year Roman numerals I V X 12-hour digital clock am pm	Months Weeks Minutes pm am Seconds Days Hours Years Convert Analogue 12-hour digital clock 24-hour digital clock		