

This progression map shows the concepts and small steps taught to pupils from EYFS to Year 6. Maths is mapped across each term and concepts revisited incorporating a spiral approach this is to ensure we broaden and deepen pupils' mathematical knowledge and they have the chance to use and apply new knowledge to a range of tasks including reasoning and problem solving. In brackets, after the concept, is the small steps taught for remembering and mastering. The progression for Years I to 6 is taken from the new Deepening Understanding Scheme of Work; however, teachers use a range of resources and activities to ensure quality first teaching and understanding of the small step. The mathematical concepts are shown in bold, followed by the small steps progression for the lesson sequence in italics, combining both remembering and mastering. Progression in the EYFS, is developed from the Statutory Framework for the Early Years Foundation Stage and the GAT EYFS Progression document.

Number	Geometry	Measure	Statistics	Algebra	Ratio and Proportion
EYFS	EYFS	Year I	Year 2	Year 6	Year 6
Year I	Year I	Year 2	Year 3		
Year 2	Year 2	Year 3	Year 4		
Year 3	Year 3	Year 4	Year 5		
Year 4	Year 4	Year 5	Year 6		
Year 5	Year 5	Year 6			
Year 6	Year 6				

It is broken down into the following areas and highlighted as follows.

<u>Maths in EYFS</u>

NURSERY	Autumn		Spring		Summer	
Number	Percepłuał subilising – recognising values		Subilise objects up to 3 Can physically partition several things into two groups and can recognise these groups can be recombined to make the same total Solve real world maths problems with numbers up to 5		Know that the quantity is the same however it is arranged Can talk about the different numbers within a number Know that a group of things changes in quantities when something is added or taken away	
Numerical Patterns	Say number words in sequence (initially 5, then 10 and then extending to larger numbers) Compare collections and begin to talk about which group has more Explore numbers with concrete objects — grouping and sharing		Count using I:1 correspondence Identify groups with the same number of things Understand fair and unfair when objects are shared between them		Know that the last number tells you how many are in the set Use vocabulary more, less, fewer and same to compare quantities Understand equal parts and whole of shapes	
Shape, Space, Measure	Recognising attributes (the stick is long) Develop spatial awareness: experiencing different viewpoints	With teacher support compares some types of measures Talk about and copy patterns around them	Copy and continue an ABAB pattern Develop spatial vocabulary to describe position and direction	Shows awareness of comparison in estimating and predicting Explores shapes and the attributes of shapes through play	Create own ABAB patterns Explores shapes and the attributes of shapes through play	Compare some types of measures Notice and correct an error in an ABAB pattern Begin to show awareness of the properties of shapes, identifying similarities. Use informal and mathematical language to describe them.

RECEPTION	A	utumn	S	pring	
Number	Counting Recognising quantities. (Subitise perceptually to 5). Comparing quantities. Ordering numbers. Exploring natural objects and quantities inside and outside at each stage.	Counting. Recognising numbers 1-5/10. (Subitise conceptually from 5) One more/ fewer up to 5/10. Comparing quantities. Identifying 1 more/1 less of numbers to 10. Ordering numbers.	Conceptual subilising — (part/ whole) Recognising numbers to 20. I more/I less. Practical addition and subtraction with numbers to 10. Number bonds to 5. Ordering numbers. (Subilise to 10 using a range of concept images). Unitising.	Part whole. Doubling, halving and sharing. Addition and subtraction. (Subitise to 10)	Addition and subtraction. Number bonds to 10 re-cap Counting in 2's,5's and 10' Estimation. Consolidate before Year Or
Shape, Space, Measure, Pattern Not represented as ELG		unchlime, afternoon, evening, night, day, before,	Repeating patterns. Relationships between shapes, compose, decompose, shapes within shapes. Measurement including non-standardised units of measure. Compare objects and people by length, height. Capacity/ weight.	Record patterns Use of spatial reasoning to create and solve problems. Introduction to Time and money. (Pirate Treasure) Order objects and people by length, height Capacity/ weight.	Secure previous knowledge consolidating language to

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dge through application before Year one. Address any gaps and to ensure children are secure in their knowledge and skills.

<u>Maths in KSI</u>

Year I	 Place Value to 10 (Remembering Sorting, Counting, Representing, Counting Forwards, Counting Backwards, Reading and Writing Numbers, One More/One Less, Correspondence, Patterns, Mastering the Number Line to 10, Remembering Comparing Objects to 10, Mastering Comparing, Using a Number Line, Ordering Objects, Ordering Numbers, Ordinal Numbers) Time (Mastering Before and After, Days and months) Counting (Remembering Counting to 20) Place Value to 20 (Mastering Writing Numbers, Representing Numbers, One More, One Less, Mastering 10, Tens and Ones, Number Line, Comparing Objects, Comparing Numbers, Ordering Objects, Ordering Objects, Ordering Numbers) Counting (Recall Counting Numbers) Counting (Recall Counting in 2s, Counting in Multiples of 2 from 1) Measure (Mastering Comparing Lengths, Comparing Heights, Measuring Length with non-Standard Units, Length with Standard Units, Measuring Time, Comparing Time) 	 Place Value (Remembering Bonds to 5, Mastering Fact Families to 5, Mastering Bonds to 6, Bonds to 7, Bonds to 8, Bonds to 9, Bonds to 10, Bonds within 10) Addition and Subtraction (Mastering Doubling Numbers to 10, Near Doubles, Doubling Lengths, Addition and Equals Symbols, Comparing Number Bonds, Adding by Counting All to 10, Adding by Making 10, Finding a Part, Subtraction by Crossing Out to 10, Subtraction Symbol, Partitioning, Counting Back, Finding the Difference, Fact Families, Reordering for Efficiency) Place Value (Mastering Bonds to 20) Addition and Subtraction (Mastering Adding by Counting 10 to a 1 Digit Number, Subtraction by Crossing Out to 20, Adding 10 to a 1 Digit Number, Subtraction by Crossing Out to 20, Subtracting 10 from Numbers II-20, Related Facts) Counting (Mastering Counting in 5s, 10s, 100 and Beyond) Place Value to 100 (Mastering Representing Numbers to 100, Mastering One More/Less, the Number Line to 100, Comparing Numbers to 100 with Pictorial Representations, Ordering Numbers to 100) 	Measure (Mastering Introducing Comparing Mass with Non-Stan Mass with Standard Units, Mast Capacity with Language, Measu Money (Mastering Recognising O Multiplication (Mastering Makin Groups by Grouping, Making Eq Fractions (Mastering Halving E Objects, Finding a Half of Shap Objects, Finding a Quarter of S Measure (Mastering Comparing Time (Mastering Time to the Ho Position and Direction (Master Fractions (Mastering Finding H Position and Direction (Master Shape (Mastering Recognising O
Year 2	 Place Value to 100 (Mastering Reading and Writing Numbers to and across 100, Mastering 10s, Tens and Ones with Standard and Non-Standard Partitioning, Number line to 100, Comparing Objects and Numbers, Ordering Numbers) Measure-Reading Scales (Measuring Lengths in Centimetres and Metres, Comparing and Ordering Lengths, Measuring Mass in Grams and Kilograms, Comparing and Ordering Mass, Measuring Capacity in Millilitres and Litres, Comparing and Ordering Volume, Measuring and Comparing Temperature) Counting (Remembering Counting in 2s, 5s and 10s, Counting in 10s from Any Number, Mastering Counting in 3s) Statistics (Interpreting and Drawing Pictograms) Mental Maths (Mastering Bonds to 20 and Related Facts) Addition (Using the Inverse, 2 More and 3 More, Mastering Adding 2-Digits and I-Digit, Adding 2-Digits and 2-Digits) 	 Subtraction (Mastering 2 and 3 Less, Mastering Subtracting 2-Digits from 2-Digits, Subtracting I-Digits from 2-Digits) Money (Mastering Finding the Difference, Finding Change, Two Step Problems) Measure (Mastering Lengths with Addition and Subtraction, Mass with Addition and Subtraction, Capacity with Addition and Subtraction, Temperature with Addition and Subtraction) Statistics (Mastering Interpreting Pictograms with Addition and Subtraction, Interpreting Block Diagrams) Multiplication and Division (Mastering Multiplication Sentences, Using Arrays, Multiplying by 2, 5 and 10, Applying Multiplication, Making Equal Groups by Sharing and Grouping, Dividing by 2, 5 and 10, Applying Division) Fractions (Mastering Making Equal Parts, Lines of Symmetry, Recognising a Half, Third and Quarter of a Shape, Equivalence of 1/2 and 2/4, Recognising Three Quarters of a Shape) 	Position and Direction (Masteri Movement and Turns) Time (Mastering Reading and W the Time to 5 minutes, Hours an Comparing Durations of Time, S Fractions (Mastering Unit and I a Quantity, Finding Three Quan Shape (Mastering Counting Side Shapes, Sorting 2D Shapes, Mak Vertices on 3D Shapes, Sorting

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ng Mass and Weight, Measuring Mass with Non-Standard Units,
ndard Units, Measuring Mass with Standard Units, Comparing
stering the Introduction of Capacity and Volume, Measuring
uring Capacity by Reading Scales)
Coins, Mastering Recognising Notes, Mastering Counting Coins)
ng Equal Groups, Counling Equal Groups, Making Equal
qual Groups by Sharing, Making Arrays)
Even Numbers to 20, Recognising a Half of Shapes and
pes and Objects, Recognising a Quarter of Shapes and
Shapes and Objects)
g Capacily)
lour, Half an Hour, Writing Time, Comparing Time)
ring Describing Turns)
Half of Quantilies)
ring Describing Direction, Describing Position)
and Naming 2D Shapes)
ring Describing Movement, Describing Turns, Describing
Writing Quarter Past, Reading and Writing Quarter to, Telling
ind Days, Measuring and Recording Time, Finding and
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e, Sequencing Time) nd Non-Unit Fractions, Finding a Half, a Third and a Quarter of uarters of a Quantity)

Sides and Vertices on 2D Shapes, Drawing Lines and 2D Making Palterns with 2D Shapes, Counting Faces, Edges and ng 3D Shapes)

Maths in KS2

Year 3	 Place Value to 1,000 (Numbers to 100, Reading and Writing Numbers to 1,000, 100s, Place Value of 3-Digit Numbers, 1, 10 and 100 More and Less, Standard and non-standard partitioning to 1,000, Number Line to 1,000, Nearest to / Furthest from, Comparing Number Representations, Ordering Numbers, Roman Numerals to 12) Measure (Telling the Time to 5 Minutes and 1 Minute,) Decimals (Tenths as Decimals on a Number Line/Place Value Grid) Measure (Measuring Lengths and Drawing Lines. Comparing Lengths, Perimeter with Squares, and a Ruler, Measuring Mass including with Mixed Measures, Simple Equivalent Mass, Comparing Mass and Capacity, Measuring Capacity, Measuring and Comparing Temperature, Recognising and Converting Pounds and Pence) Counting (Counting in 10 and 100s from any Number, Counting in 50s, 4s and 8s from 0) Statistics: (Tally Charts, Pictograms and Bar Charts Bonds and Fact Families to 1,000) 	 Addition and Subtraction (Number bonds, Multiples, Crossing and not crossing 10/100 Rounding, 2 digit and 3-digit numbers, Estimating using Fact Families, Partitioning, Estimating Answers. Subtraction with and without exchange, Checking using Inverse Operations) Measure (Adding and Subtracting Lengths, Mass, Capacity and Money, Finding Change, Calculating Perimeter) Statistics (Pictograms, Bar Charts and Tables with Sum and Difference Questions) Fractions (Remembering Unit and Non-Unit, Addition, Subtraction and Making the Whole) Multiplying and Dividing (by 10 including to find tenths. Commutativity and Associativity, Related Facts, Doubling Numbers with Partitioning, Partitioning to Divide, Remembering Equal Groups, by 3, 4 and 8, Scaling) 	Multiplication and Division (P 3-, 4- and 8-times table and a Time (Months and Years, Days Fractions (Halving and Quarte Quantities, Non-Unit Fractions (pictorial, graction wall, bar mo Non-Unit Fractions) Time (AM and PM, 24 Hour Cla Shape and Angles (Recognisin Comparing Angles, Horizontal, Shapes, Properties of 2D and 3
Year 4	 Place Value to 10,000 (Mastering Reading and Writing Number to 10,000, Place Value Standard and Non-Standard Partitioning, Nearest and Furthest, Rounding, Comparing and Ordering, Roman Numerals) Measure (Length, Perimeter of Rectilinear Shapes, Estimating, Comparing Mass, Comparing Capacity, Temperature) Decimals (Tenths and hundredths, Reading and writing numbers to 2DP, Rounding to the nearest whole number) Money (Mastering Decimal Notation, Comparing in 6s, 7s, 9s, 25s, 100s, 1000s) Statistics (Bar Charts, Pictograms, Time Charts) Addition (Mastering Number Bonds, Calculation Efficiency, Adding 4-digit Numbers and I-digit — Crossing 10s up to Adding 4-digit Numbers and 1000s with Exchanging) Measure (Adding Length, Mass, Capacity, Money) 	 Statistics (Mastering Sum and Difference Questions) Fractions (Making the Whole, Fractions Greater than I, Adding and Subtracting Fractions) Subtracting (Mastering Number Bonds, Calculation Efficiency, Subtracting 4-digit Numbers and I-digit — crossing IOs up to Subtracting 4-digit numbers and 1000s with exchanging) Measure (Subtracting Length, Mass, Capacity, Money) Multiplication and Division (Doubling Numbers, Multiplying 3 Numbers, Deriving Facts from Known Facts, Multiplying by IO and 100, Multiplying and Dividing by 6, 7, 9, II and 12, Multiplying 2-digit numbers by I-digit, Multiplying and Dividing 3-digit numbers by I-digit) Area (Counting Squares, Comparing) Money (Estimating and Comparing) 	Time (Years, Months, Weeks, Ho Fractions (Counting, Fractions Fractions as decimals (Tenth Fractions) Shape and Angles (Identifying Quadrilaterals, Lines of Symm Position and Direction (Descr ordinates, Mastering and Descr Time (Mastering analogue to d
Year 5	 Place Value to 1,000,000 (Mastering Reading and Writing Number to 1,000,00, Place Value Standard and Non-Standard Partitioning, Nearest and Furthest, Rounding, Comparing and Ordering inc Negative Numbers, Roman Numerals to 1,000) Decimals (Reading, Writing, Partitioning, Rounding, Comparing, Ordering) Counting (Through Zero, Powers of 10, Multiples of 12, Decimals and Fractions) Measure (Comparing and Ordering Measures) Angles (Comparing, Ordering and Measuring Angles) Fractions (Equivalent, Improper, Mixed, Comparing, Ordering, Less and Greater than One) Statistics (Bar Charts, Pictograms, Line Graphs) 	Addition and Subtraction (Fact Families, Adding and Subtracting Multiples, Rounding to Estimate, Column Addition and Subtraction, Inverse Operations and Multistep Problems) Adding and Subtracting Decimals (Compliments to One, Adding and Subtracting Tenths, Adding Decimals within I and Crossing the Whole) Money (Problem Solving) Time (Converting Units, Interpreting Timetables) Perimeter (Measuring and Calculating of Rectilinear Shapes) Angles (On a Straight Line, Around a Point and in Shapes) Fractions (Converting, Simplifying, Adding and Subtracting Mixed and Improper Fractions Across and Within One) Shape (Regular and Irregular Polygons, Nets.)	Multiplication and Division (k Measure (Converting Length, C Multiplication and Division (L Dividing 4 digits by 1 digit incl Area (Area of Rectangles, Com Fractions, Decimals and Percen Integer, Understanding Percen Position and Direction (Trans

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Problem Solving, Applying Multiplication and Division division facts, with and without exchange and remainders) s and Hours, Minutes and Seconds, Comparing Time) ering, Using Multiplication to Find Fractions, Unit Fractions of of Shapes, Objects and Quantities, Equivalent Fractions odels and number lines), Comparing and Ordering Unit and

lock, Duration, Start and End Times) ing Angles as Turns, Right-Angles, Acute and Obtuse Angles, Vertical, Parallel and Perpendicular Lines, Symmetry in 3D Shapes, Drawing 2D Shapes, Constructing 3D Shapes)

ours, Minułes, Seconds) s of a Quanliły, Equivalence, Simplifying) s as Fractions, Decimal Number Bonds, Hundredłhs as

g Angles, Comparing and Classifying Polygons, Triangles, etry) ibing Positions on a Grid, Completing Polygons with Coibing Movement on a Grid) ligital, 24 Hours, Calculating durations)

Whole Numbers and Decimals by 10,100 and 1000). Capacily and Mass, Imperial Units and Scaling Measures) Long and Short Multiplication up to 4 digits by 2 digits, luding Remainders as Decimals and Fractions) npound Shapes and Irregular Shapes) centages (Multiplying Unit and Non-Unit Fractions by an itages, Decimals and Fractions as Equivalences) slation and Reflection with Coordinates)

Maths Progression Map

Year 6	Place Value to 10,000,000 (Mastering Reading and Writing Number to 10,000,00, Place	Measure (Calculating Metric Measure and Perimeter)	Measure (Calculating Perimeter)
	Value Standard and Non-Standard Partitioning, Nearest and Furthest, Rounding, Comparing	Fractions (Application Adding and Subtracting Common and No Common Multiples,	Fractions (Mastering Multiplying
	and Ordering inc Negalive Numbers)	Mastering Adding and Subtracting Mixed Numbers)	Statistics (Mastering Mean, Read
	Decimals (Sequences, Rounding, Comparing and Ordering)	Multiplication and Division (Mastering Powers of 10)	Ratio and Proportion (Ratio La
	Fractions (Comparing and Ordering)	Measure (Mastering Converting Metric Measures)	Angles (Angles in Polygons, Opp
	Counling (Powers of 10 from any number, Decimals and Fractions)	Multiplication (Mastering Known Facts)	Shape (Mastering Circles, Drawin
	Statistics (Mastering Line Graphs and Conversion)	Measure (Application Mastering Converting Imperial Measure, Miles and Kilometres)	Position and Direction (Quadra
	Adding and Subtracting Integers (Mastering Adding and Subtracting Multiples, Rounding	Multiplication (Common Factors and Multiples)	
	and Adjusting, Column Addition and Subtraction)	Measure (Mastering Volume of Cubes/Cuboids)	
	Angles (Mastering Angles in Triangles and Quadrilaterals)	Algebra (Maslering Order of Operations, Finding Rules, Forming Expressions and Equations)	
	Adding and Subtracting Decimals (Complements to One, Adding and Subtracting Tenths	Shape (Mastering Shape with the Same Area/Perimeter, Area of Triangle and	
	and One Digit Whole Numbers)	Parallelograms)	
		Multiplication and Division (Arithmetic, Mastering Short and Long Division)	
		Multiplication and Division (Decimals)	

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ing and Dividing, Equivalence and Converting FDP) eading and Interpreting Pie Charts) Language and Scale) Opposite Angles, Isosceles Triangles) wing Accurately and Mastering Nets of 3D Shapes) drants, Translations and Reflections)