Place Value Progression

3LS1 Place Value and Regrouping	Step 1	10 ones are equal to 1 ten and 10 tens are equal to 1 hundred
	Step 2	Comparing representations of 3-digit numbers
	Step 3	Varying the order and practice
	Step 4	Regrouping 3-digit numbers flexibly
	Step 5	Securing equality (for example 3 hundreds are equal to 30 tens and 300 ones)
4LS1 Order and Compare Numbers Beyond 1000	Step 1	Understanding that 10 hundreds are equal to 1 thousand, 10 tens are equal to 1 hundred and 10 ones are equal to 1 ten
	Step 4	Regrouping 4-digit numbers flexibly
5LS1 Place Value and Rounding of Large Numbers	Step 1	Value of digits within large numbers
6LS1 Place Value	Step 1	Read and write large numbers

3LS3 Estimation, Magnitude and Rounding	Step 1	Use value of digits to compare and order numbers (recognise most significant digit)
	Step 2	Estimate the order of 3-digit numbers
	Step 3	Estimate number magnitude
	Step 4	Round numbers to nearest ten and hundred
3LS4 Measures – Comparison, Estimation and Magnitude	Step 1	Develop understanding of appropriate units
	Step 2	Reading scales
4LS2 Rounding, Estimation and Magnitude	Step 1	Estimate number magnitude
	Step 2	Identify and estimate numbers using different representations
	Step 3	Rounding numbers to the nearest 10, 100 or 1000
	Step 4	Comparing and rounding numbers to the nearest 10, 100 and 1000
4LS29 Negative numbers – counting through zero and calculating in context	Step 1	An introduction to negative numbers
	Step 2	Counting backwards through zero
5LS1 Place Value and Rounding of Large Numbers	Step 2	Number magnitude and conservation of a million
	Step 3	Comparing numbers
	Step 4	Ordering numbers
	Step 6	Rounding numbers

5LS2 Negative numbers	Step 1	Counting forwards and backwards across zero
	Step 2	Reading scales involving negative numbers
	Step 3	Application in context
6LS1 Place Value	Step 3	Comparing and ordering numbers
	Step 5	Negative numbers
	Step 6	Rounding numbers

Addition and subtraction (including algebra) progression

3LS7 Fact families and applying the inverse	Step 2	Creating fact families
	Step 3	Using fact families and the inverse operation to find missing number
Addition and subtraction calculation strategies as appropriate: **Mental addition – regrouping** **Mental addition – reordering and rebalancing** **Mental subtraction – regrouping** **Mental subtraction – comparison and difference**		
3LS8 Written addition	Step 6	Language of addition
3LS10 Problem solving – worded problems	Step 1	Identifying the part or whole unknown in simple worded problems
	Step 2	Understanding start, change and result problems
	Step 3	Mixed Practice
	Step 4	Understanding multi-step part whole worded problems
	Step 5	Understanding simple comparison problems
3LS33 Time - duration	Step 1	Time to the nearest hour
	Step 5	Finding unknown start and end times from given duration of events
	Step 6	Comparing the duration of events
Addition and Subtraction, Multiplication and Division – Calculation strategies for all four operations		
4LS8	Step 1	Addition and subtraction problems involving measures

Problem solving including measures to apply place value, mental strategies & arithmetic laws	Step 6	Two step problems involving all four operations
4LS11 Measure – compare, estimate and calculate	Step 3	Calculating with length, mass and capacity
Fractions, Decimals and Percentages: Decimals – Place value with decimal numbers		
4LS17 Calculating with decimals	Step 1	Finding complements to 1
4LS19 Problem solving involving decimals to two decimal places	Step 1	Non-routine problem-solving using decimals – using a simpler case to solve a complex problem
	Step 3	Routine problem solving
4LS26 Time - read, write, calculate, convert	Step 3	Find unknown start or end times when duration is known
5LS16 Problem solving - Four operations	Step 1	Drawing a model to support reasoning
5LS28 Identify Unknown Angles	Step 1	Angles in a right angle and on a straight line
	Step 2	Angles around a point or whole turn
5LS35 Solve problems involving the four operations	Step 1	Exploring confusing language – dangers of trigger words and distractors
	Step 2	Focus on structure – translating language into a mathematical model
5LS37 Use Properties of Rectangles	Step 1	Calculating missing lengths in rectangles and shapes or patterns including rectangles
	Step 2	Using knowledge of rectangles and angles to calculate missing angles rectangles
6LS4 Problem solving (four operations)	Step 1	Using a bar model to solve multi-step problems
6LS16 Order of Operations	Step 1	Why we need the order of operations
	Step 2	Develop order of operations and start to write formulas
	Step 3	Deepen understanding of order of operations – abstract calculations
	Multiplication and Division: Multiplication facts – Square and cube	
	Step 4	Considering division and indices (powers) in order of operations
	Step 6	Connecting algebraic equations to known models (multiplication and division)
	Step 7	Simplifying equations to find the unknown
	Step 8	Solving word problems involving algebra
	Step 9	Solving problems involving algebra – abstract calculations
6LS18 Exploring Relationships Between Perimeter and Area	Step 1	Consolidate understanding of perimeter
	Step 2	Consolidate area -rectilinear shape, triangle, parallelogram
6LS19 Recognise and Find Angles	Step 1	Recognise and name angles (expressing algebraically)
	Step 2	Investigate vertically opposite angles
	Step 3	Find missing angles from known facts

Multiplication and division progression

3LS16 Multiplication – 3-, 4- and 8-Times Tables including Counting	Step 1	Understand that counting up in multiples is also repeated addition
	Step 2	Learning multiplication facts through building arrays
	Step 3	Learning multiplication facts through visualising arrays (developing recall)
	Step 4	Developing counting strategies for 3x and 4x tables

3LS17 Division – 1, 2, 3-, 5-, 4- and 8-Times Tables	Step 1	Division by sharing using manipulatives
	Step 2	Division by grouping using manipulatives
	Step 3	Linking multiplication and division using arrays
	Step 4	Learning division facts through visualising arrays (developing recall)
	Step 5	Rehearsing division facts
4LS5 Counting in Multiples of 6, 7, 9, 25 and 1000	Step 1	Understand that counting up in multiples is also repeated addition
	Step 2	Extend counting in multiples knowledge to 25s
4LS6 Multiplication and Division Facts (Times Tables)	Step 1	Creating and regrouping arrays for multiplication (distributive law)
	Step 2	Learning multiplication facts through building arrays (developing recall)
	Step 3	Rehearsing and recalling multiplication facts; making links and spotting patterns
	Step 4	Rehearsing division facts
	Step 5	Laws of divisibility to help with division facts
	Step 6	Strategies for calculating multiplication facts
4LS7 Factor Pairs, Integer Scaling and Correspondence Problems	Step 1	Understanding and finding factors
4LS34 Multiplication and Division Review	Step 1	Times table review
	Step 3	Related times tables facts
4LS35 Area	Step 2	Relate finding area of rectilinear shapes to arrays up to 12 x 12
5LS5 Properties of Number – Multiples, Factors and Common Factors	Step 1	Identifying multiples
	Step 2	Comparing multiples and factors
	Step 3	Identifying all factors of a number
	Step 4	Identifying common factors
5LS6 Prime and Composite Numbers	Step 1	Identifying what makes a number prime
	Step 2	Prime or composite?
	Step 3	Building composite numbers from prime factors
5LS7 Multiply and Divide Mentally	Step 1	Revisit strategies for recalling known facts
5LS8 Solve Problems Involving Knowledge of Key Facts	Step 1	Working backwards
	Step 2	Find a starting point
5LS21 Volume and Capacity	Step 1	Square numbers and area
	Step 2	Build cube numbers
6LS5 Application of Factors, Multiples and Primes	Step 1	Clarify terminology relating to properties of number
	Step 2	Recognise common multiples
	Step 3	Apply knowledge of common multiples
	Step 4	Apply knowledge of factors and multiples

3LS18 Multiplication – Strategy, Associative and Distributive Laws	Step 1	Doubling and halving
	Step 2	Halving two-digit numbers
	Step 3	Associative law
	Step 4	Distributive law up to 10 x 10
	Step 5	Distributive law for 2-digit numbers
Multiplication Facts and Multiplying and Dividing by 10, 100 & 100		
3LS26 Multiplication – Formal Written Multiplication	Step 1	Multiplying two-digit numbers by ones using distributive law (no regrouping)
	Step 2	Multiplying two-digit numbers by ones using distributive law (with regrouping)

	Step 3	Introducing short multiplication with no regrouping
	Step 4	Short multiplication with regrouping of ones into tens only
	Step 5	Short multiplication with regrouping of ones and tens
4L24 Multiply Two and Three-digit Numbers by a One-digit Number Using a Formal Written Layout	Step 1	Multiplying multiples of ten by one-digit numbers
	Step 2	Multiplying multiples of one hundred by one-digit numbers
	Step 3	Multiplying two and three-digit numbers by one-digit numbers using distributive law (with regrouping)
	Step 4	Formal written multiplication with no regrouping
	Step 5	Formal written multiplication with regrouping in one column
	Step 6	Formal written multiplication with regrouping in one or more columns
4LS34 Multiplication and Division Review	Step 4	Short multiplication review
5LS7 Multiply and Divide Mentally	Step 2	Use known multiplication facts to derive others
	Step 3	Doubling and halving to use known facts
	Step 4	Divisibly rules
	Step 5	Regrouping to support division
	Step 6	Select an appropriate strategy for mental multiplication or division
5LS11 Formal Written Method for Multiplication	Step 1	Revision of formal written method for a 2 or 3-digit number by a 1-digit number
	Step 2	Short multiplication of a 3- or 4-digit number by 1 digit
	Step 3	Long multiplication of a 3- or 4-digit number by 2-digits
	Step 4	Comparing long multiplication and short multiplication
	Step 5	Rehearsal and application of the formal written methods of short and long multiplication
5LS30 Strategies for Multiplication and Division (Mental and Written)	Step 3	Multiplication and division – developing strategy discussion and operational sense
6LS6 Formal Written Method of Multiplication	Step 1	Revision of short multiplication for a 3- or 4-digit number by a 1-digit number
	Step 2	Revision of long multiplication for a 3- or 4-digit number by a 2-digit number
	Step 3	Revision of short multiplication for a 3- or 4-digit number by a 2-digit number
	Step 4	Generating new facts from known facts
	Step 5	Formal written method of multiplication involving numbers with up to 2 decimal places multiplied by a 1-digit number
	Step 6	Application of the formal written method for multiplication

3LS17 Division – 1, 2, 3, 5, 4 and 8 Times Tables	Step 1	Division by sharing using manipulatives
	Step 2	Division by grouping using manipulatives
	Step 3	Linking multiplication and division using arrays
	Step 4	Learning division facts through visualising arrays (developing recall)
	Step 5	Rehearsing division facts
3LS28 Division – Two and Three-Digit Numbers by One-Digit Numbers including Halving	Step 1	Place value revision
	Step 2	Halving 2- and 3-digit numbers
	Step 3	Sharing 2- and 3-digit numbers by ones with no regrouping
	Step 4	Sharing 2- and 3-digit numbers by ones with regrouping
	Step 5	Linking base facts to division
3LS30 Division – Long Division	Step 1	Revision of quotients and remainders when sharing
	Step 2	Introducing the long division method (sharing ones)
	Step 3	Long division of tens and ones with no regrouping
	Step 4	Long division of tens and ones with regrouping
4LS25 Divide Two and Three-digit Numbers by a One-digit Number Using a Formal Written Layout	Step 1	Long division with no regrouping
	Step 2	Long division with regrouping hundreds into tens
	Step 3	Long division with regrouping hundreds into tens and tens into ones
	Step 4	Mixed division rehearsal
4LS34 Multiplication and Division Review	Step 5	Long division review
	Step 6	Short division
Multiplication Facts		
5LS12 Formal Written Method of Short Division	Step 1	Division as sharing
	Step 2	Sharing and grouping
	Step 3	Short division for numbers up to 4-digits
	Step 4	Expressing remainders as fractions
	Step 5	Expressing remainders as decimals
	Step 6	Interpreting remainders
5LS29 Formal Methods for Division and Multiplication-Increasingly Complex Problems	Step 1	Interpreting remainders
5LS30 Strategies for Multiplication and Division (Mental and Written)	Step 1	Revisiting and deepening understanding of remainders

6LS8 Formal Written Method of Short Division	Step 1	Understanding short division
	Step 2	Short division where answers have up to 2 decimal places
	Step 3	Short division with decimal remainders up to 2 decimal places
	Step 4	Prove decimal fraction equivalents using short division
6LS17 Formal Written Method for Long Division	Step 1	Comparing short and long division layout
	Step 2	Long division for numbers up to 4 digits
	Step 3	Interpreting remainders as whole numbers
	Step 4	Expressing remainders with fractions
	Step 5	Expressing remainders with decimals

Pre-requisite learning	**EFFC: Pattern and Group Recognition** **R: Ten and some more** **Place Value – understanding regrouping across place value columns**	
3LS25 Multiplication – Multiplying Multiples of Ten	Step 1	Explore the effect of scaling by ten
	Step 2	Explore the effect of scaling by ten on place value
	Step 3	Multiplying multiples of ten by one-digit where the product is less than 100
	Step 4	Multiplying multiples of ten by one-digit where the product is greater than 100
3LS35 Place value and decimals - ten times bigger and ten times smaller	Step 1	Ten times smaller than 1 is a tenth
	Step 2	Recording tenths as decimal numbers
	Step 3	Finding unknown tenths from known wholes
	Step4	Finding unknown wholes from known tenths
4LS9 Multiply and Divide a One or Two-digit Number by 10 and 100	Step 1	Multiplying and dividing by 10 – investigating the effect
	Step 2	Multiplying and dividing by 10 – understanding the effect
	Step 3	Dividing by 10 – using decimal and fraction notation
	Step 4	Multiplying and dividing by 100 – understanding the effect, using decimal notation
	Step 5	Multiplying and dividing by 10 and 100 – applying learning and reasoning ideas
4LS10 Measure – Conversion of units	Step 1	Converting between units of length – understanding the calculations needed
	Step 2	Converting between units of mass and capacity – understanding the calculations needed
4LS24 Multiply Two and Three-digit Numbers by a One-digit Number Using a Formal Written Layout	Step 1	Multiplying multiples of ten by one-digit numbers
	Step 2	Multiplying multiples of one hundred by one-digit numbers
4LS34 Multiplication and Division Review	Step 3	Multiplying and dividing by 10/100 and 1000

5LS4 Multiply and Divide by 10, 100 and 1,000	Step 1	Multiplying by 10, 100 and 1000
	Step 2	Multiplying by 10, 100 and 1000 (including decimals)
	Step 3	Dividing by 10, 100 and 1000 (including decimals)
	Step 4	Multiplying and dividing by 10, 100 and 1000
5LS19 Measure – Converting Units of Measure	Step 1	Decimal and fraction equivalences of metric measures
	Step 2	Converting from a larger unit to a smaller unit
	Step 3	Converting from a smaller unit to a larger unit
	Step 4	Mixed conversion practice
5LS32 Imperial and Metric Conversions	Step 1	Metric conversion
	Step 2	Metric scale drawings
6LS2 Multiply and Divide by 10, 100 and 1,000	Step 1	Develop fluency of multiplying and dividing by 10, 100 and 1000
	Step 2	Application in the context of measure
6LS26 Measures	Step 1	Clarify what is known about measures and converting them

3LS20 Multiplication and Division Worded Problems	Step 1	Worded problems based on equal groups
	Step 2	Rate worded problems involving money
	Step 3	Combination worded problems
	Step 4	Mixed bar model examples including measures and time
3LS27 Division Problem Solving – Sharing and Grouping	Step 1	Division by sharing – part whole problems
	Step 2	Division by sharing – comparison problems
	Step 3	Division by grouping
	Step 4	Using known facts to solve missing number problems
3LS29 Multiplication, Division and Fractions – Scaling and Correspondence Problems	Step 1	Solving integer scaling problems
	Step 2	Varying the unknown within correspondence problems
	Step 3	Mixed problems involving fractions
Addition and Subtraction, Multiplication and Division – Calculation strategies for all four operations		
3LS34 Securing the Four Operations with Whole Numbers including Problem Solving	Step 2	Applying multiplication and division including working systematically
4LS7 Factor Pairs, Integer Scaling and Correspondence Problems	Step 2	Solving integer scaling and correspondence problems
	Step 3	Exploring correspondence problems
	Step 4	Solving a range of correspondence problems
	Step 5	Creating their own correspondence problems
4LS37 Application and Problem Solving – Developing Operation Sense	Step 1	Number sequences
	Step 2	Number pattern and relationships
	Step 4	Solving logic problems
5LS16 Problem Solving – All Four Operations	Step 1	Draw a model to support reasoning
	Step 2	Interpreting statistical information
	Step 3	Working backwards as a strategy
	Step 4	Select an appropriate strategy to problem solve
	Step 5	Apply an appropriate strategy to problem solve

5LS19 Measure – Converting Units	Step 5	Scaling measures
5LS22 Percentages	Step 3	Use scaling to identify percentages
5LS29 Formal Methods for Division and Multiplication - Increasingly Complex Problems	Step 2	Creating word problems involving different division contexts
	Step 3	Applying formal multiplication to solve problems
5LS30 Strategies for Multiplication and Division	Step 2	Solving missing number division problems
5LS31 Solving Problems by Scaling by Simple Fractions and Rates	Step 1	Model scaling and correspondence problems
	Step 2	Scaling by simple fractions
	Step 3	Scaling by simple rates
	Step 4	Scale drawings
5LS32 Imperial and Metric Conversions	Step 3	Imperial units of measure - pints
	Step 4	Imperial units of measure - inches
	Step 5	Imperial units of measure - pounds
5LS35 Solving Problems involving the Four Operations	Step 1	Exploring confusing language – dangers of trigger words and distractors
	Step 2	Focus on structure – translating language into a mathematical model
	Step 3	What could the question be?
	Step 4	Revisiting working backwards
6LS16 Order of Operations and Algebra	Step 1	Why we need the order of operations
	Step 2	Develop order of operations and start to write formulas
	Step 3	Deepen understanding of order of operations – abstract calculations
	Multiplication and Division: Multiplication facts – square/cube number	
	Step 4	Considering division and indices (powers) in order of operations
	Step 6	Connecting algebraic equations to known models (multiplication and division)
	Step 7	Simplifying equations to find the unknown
	Step 8	Solving word problems involving algebra
	Step 9	Solving problems involving algebra – abstract calculations
6LS18 Exploring Relationships Between Perimeter and Area	Step 1	Consolidate understanding of perimeter (expressing algebraically)
	Step 2	Consolidate finding the area of rectilinear shapes, parallelograms and triangles (expressing algebraically)

6LS25 Volume	Step1	Visualise and calculate the volume of cubes (expressing algebraically)
6LS28 Algebra and Sequences	Step 1	Build and describe linear sequences
	Step 2	Identify missing terms – start and end number given
	Step 3	Find pairs of numbers that satisfy an equation with two unknown variables
6LS34 Further Algebra	Step 1	Building sequences to generalise
	Step 2	Linking sequences and algebra
	Step 3	Describe the relationship between term and term number

Fractions, decimals and percentages progression

3LS21 Fractions - Finding fractions of discrete and continuous quantities	Step 1	Exploring unit fractions and non-unit fractions
	Step 2	Find and write fractions of a discrete set of objects
	Step 3	Find and write fractions as continuous quantities
	Step 4	A range of fraction worded problems including multi-step
3LS24 Fractions – problem solving with unit and non-unit fractions	Step 1	Problem solving involving fractions of shapes
4LS21 Finding fractions of quantities	Step 1	Scaling unit fractions to find fractions of quantities
	Step 2	Exploring the models for finding fractions of quantities
	Step 3	Using the whole and number of equal parts to find fractions of quantities
	Step 4	Use fractional reasoning to solve whole unknown problems
	Step 5	Relating fractions to correspondence problems

4LS22 Fractions in the context of measure	Step 1	Recognising familiar fractions expressed as measures
	Step 2	Ordering measures involving fractions
	Step 3	Mixed worded problems involving a range of measures
5LS14 Compare and order fractions	Step 7	Order fractions of amounts
5LS18 Fraction problem solving	Step 2	Using bar modelling to represent a problem involving fractions
5LS31 Solving problems involving scaling by simple fractions	Step 2	Scaling by simple fractions
6LS23 Fraction problem solving	Step 1	Reason about fractions in problems
	Step 2	Solve mixed fraction problems

3LS21 Finding fractions of discrete and continuous quantities	Step 1	Exploring unit fractions and non-unit fractions
3LS22 Ordering and comparing fractions	Step 1	Finding fractions of shapes
	Step 2	Compare and order unit fractions

	Step 3	Compare and order fractions with the same denominator
3LS24 Fractions – problem solving with unit and non-unit fractions	Step 2	Ordering and comparing a range of fractions
	Step 3	Mixed word problems including multi-step
4LS16 Decimal numbers	Step 5	Decimal equivalence to tenths, hundredths, ¼, ½ and ¾
4LS23 Equivalent fractions, ordering and comparing	Step 1	Compare and order a range of fractions
	Step 2	Showing equivalence with accurate diagrams
	Step 3	Exploring families of common equivalent fractions
	Step 4	Create equivalent fractions by multiplying and dividing
5LS13 Equivalent fractions	Step 1	Identify and name fractions
	Step 2	Recognise and create equivalent fractions
	Step 3	Improper fractions and mixed numbers
	Step 4	Convert improper fractions to mixed numbers
	Step 5	Application of mixed numbers and improper fractions
5LS14 Compare and order fractions	Step 1	Compare fractions to ½
	Step 2	Compare fractions using visual representations
	Step 3	Identify equivalent fractions where denominators are all multiples of the same number
	Step 4	Compare fractions whose denominators are all multiples of the same number
	Step 5	Order fractions whose denominators are all multiples of the same number
	Step 6	Order fractions whose denominators are all multiples of the same number where simplification can be used
	Step 7	Order fractions of amounts
6LS9 Equivalent fractions including simplifying fractions	Step 1	Create equivalent fractions in their simplest form
	Step 2	Simplify fractions
	Step 3	Identify common multiples
	Step 4	Change fractions to have common denominators
6LS10 Comparing and ordering fractions	Step 1	Reasoning about ordering fractions
	Step 2	Compare fractions using visual representations
	Step 3	Compare fractions with consideration of their proximity to 0, half or 1
	Step 4	Compare fractions by changing to a common denominator
	Step 5	Order fractions
	Step 6	Order fractions in a range of contexts
6LS12 Fraction and decimal equivalents	Step 1	Associate fractions with division
	Step 2	Decimal and fraction equivalence

Addition and Subtraction: Part whole and additive understanding for whole numbers		
3LS23 Adding and subtracting fractions with the same denominators	Step 1	Finding complements of 1
	Step 2	Adding fractions with the same denominator
	Step 3	Subtracting fractions with the same denominator
	Step 4	Applying the addition and subtraction of fractions with the same denominator
Addition and Subtraction: Mental addition – regrouping and Mental subtraction - regrouping		
4LS20 Add and subtract fractions with the same denominator	Step 1	Identify equal parts and whole and find complements of 1
	Step 2	Add and subtract fractions with no regrouping
	Step 3	Add fractions with regrouping
	Step 4	Subtract fractions with regrouping
5LS13 Equivalent fractions	Step 2	Recognise and create equivalent fractions
	Step 3	Improper fractions and mixed numbers
	Step 4	Convert improper fractions to mixed numbers

5LS15 Adding and subtracting fractions	Step 1	Add and subtract fractions with the same denominator
	Step 2	Add and subtract fractions whose denominators are all multiples of the same number
	Step 3	Add and subtract fractions >1 whose denominators are all multiples of the same number
	Step 4	Application of adding and subtracting fractions
Multiplication and Division Booklet: Multiplicative understanding with whole numbers 1LS27 and 3LS18		
5LS17 Multiplying fractions by whole numbers	Step 1	Multiply unit fractions by a whole number where the answer is <1
	Step 2	Multiply fractions by whole numbers where the answer is >1
	Step 3	Evaluate the effectiveness of representations to solve problems
	Step 4	Multiply mixed numbers by whole numbers
	Step 5	Multiply fractions by whole numbers in a range of contexts
5LS18 Fraction problem solving	Step 1	Combing learning about fractions to solve a problem
	Step 2	Using bar modelling to represent a problem involving fractions
6LS9 Equivalent fractions including simplifying fractions	Step 1	Create equivalent fractions in their simplest form
	Step 2	Simplify fractions
	Step 3	Identify common multiples
	Step 4	Change fractions to have common denominators
6LS11 Adding and subtracting fractions	Step 1	Use pictorial representations to show addition and subtraction of fractions
	Step 2	Application of adding and subtracting fractions
6LS21 Multiplying fractions (simple pairs of proper fractions)	Step 1	Understand the effect of multiplying with proper fractions
	Step 2	Represent multiplication with simple pairs of proper fractions
	Step 3	Multiply simple pairs of proper fractions
	Step 4	Apply multiplication of fractions in a range of contexts
6LS22 Divide proper fractions by whole numbers	Step 1	Understand the relationship between fractions and division
	Step 2	Understand division of fractions by whole numbers in context
	Step 3	Unitary fractions divided by whole numbers - word problems
	Step 4	Non-unitary fractions divided by whole numbers
	Step 5	Solving mixed problems
6LS23 Fraction problem solving	Step 1	Reason about fractions in problems
	Step 2	Solve mixed fraction problems

Pre-requisite learning	**Understand whole number place value (Number and Place Value Booklet)**	
3LS35 Place value and decimals - ten times bigger and ten times smaller	Step 1	Ten times smaller than 1 is a tenth
	Step 2	Recording tenths as decimal numbers
	Step 3	Finding unknown tenths from known wholes
	Step4	Finding unknown wholes from known tenths
3LS36 Place value and decimals - partitioning	Step 1	Place value with decimal numbers
	Step 2	Regrouping decimal numbers
3LS37 Place value and decimals - estimation, comparing and rounding	Step 1	Order and compare place value of numbers with 1 decimal place
	Step 2	Estimate decimal numbers
	Step 3	Round decimal numbers to nearest whole numbers
3LS38 Measures – Measuring and problem solving	Step 1	Measuring and comparing lengths
	Step 2	Measuring and comparing mass, volume and capacity
	Step 3	Using and comparing mixed units
4LS9 Multiple and Divide a one or two digit number by 10 and 100	Step 1	Multiplying and dividing by 10 – investigating the effect
	Step 2	Multiplying and dividing by 10 – understanding the effect
	Step 3	Dividing by 10 – using decimal and fraction notation
	Step 4	Multiplying and dividing by 100 – understanding the effect, using decimal notation
4LS10 Measure – Conversion of units	Step 1	Converting between units of length – understanding the calculations needed
	Step 2	Converting between units of mass and capacity – understanding the calculations needed
4LS11 Measures – Compare, estimate and calculate	Step 1	Measuring, estimating and comparing length

4LS16 Decimal numbers	Step 1	Place value with decimal numbers
	Step 2	Regrouping decimal numbers
	Step 3	Order and compare place value of numbers with up to 2 decimal places
	Step 4	Estimate decimal numbers
	Step 5	Decimal equivalence to tenths, hundredths, ¼, ½ and ¾
	Step 6	Round decimal numbers to nearest whole numbers
	Step 7	x and ÷ by 10 and 100
4LS19 Problem solving involving decimals to two decimal places	Step 1	Non-routine problem solving using decimals – using a simpler case to solve a complex problem
	Step 2	Non-routine problem solving using decimals– finding all possibilities
5LS3 Place Value of Numbers with up to Three Decimal Places	Step 1	Recognising and comparing tenths and hundredths
	Step 2	Comparing numbers with up to 2 decimal places
	Step 3	Read, write and compare numbers with up to 3 decimal places
	Step 4:	Ordering numbers with up to 3 decimal places
	Step 5	Rounding decimals (2 decimal places to the nearest whole number and to 1 decimal place)
5LS4 Multiple and divide by 10, 100 and 1000	Step 1	Multiplying by 10, 100 and 1000
	Step 2	Multiplying by 10, 100 and 1000 (including decimals)
	Step 3	Dividing by 10, 100 and 1000 (including decimals)
	Step 4	Multiplying and dividing by 10, 100 and 1000
5LS7 Multiply and Divide mentally, using a range of strategies and drawing upon known facts	Step 2	Use known multiplication facts to derive others
5LS19 Measure: converting units of measure	Step 1	Decimal and fraction equivalences of metric measure
	Step 2	Converting from a larger unit to a smaller unit
	Step 3	Converting a from a smaller unit to a larger unit
5LS33 Fractions, decimals and percentages – problem solving	Step 1	Revising proportions and scaling
6LS1 Place value	Step 4	Comparing numbers including to 3 decimal places
6LS2 Multiple and Divide by 10, 100, 1000 giving answers up to three decimal places	Step 1	Develop fluency of multiplying and dividing by 10, 100 and 1000
	Step 2	Application in the context of measure
6LS12 Fraction and decimal equivalents	Step 2	Decimal and fraction equivalents
6LS13 Fractions, decimals and percentages	Step 1	Making connections between fraction, decimals and percentages
6LS26 Measures	Step 1	Clarify what is known about measures and converting them

Pre-requisite learning	Understand whole number place value (Number and Place Value Booklet)	
3LS35 Place value and decimals - ten times bigger and ten times smaller	Step 1	Ten times smaller than 1 is a tenth
	Step 2	Recording tenths as decimal numbers
3LS36 Place value and decimals - partitioning	Step 1	Place value with decimal numbers
3LS37 Place value and decimals - estimation, comparing and rounding	Step 1	Order and compare place value of numbers with 1 decimal place
	Step 2	Estimate decimal numbers
	Step 3	Round decimal numbers to nearest whole numbers
4LS9 Multiple and Divide a one or two digit number by 10 and 100	Step 1	Multiplying and dividing by 10 – investigating the effect
	Step 2	Multiplying and dividing by 10 – understanding the effect
	Step 3	Dividing by 10 – using decimal and fraction notation
	Step 4	Multiplying and dividing by 100 – understanding the effect, using decimal notation
4LS16 Decimal numbers	Step 1	Place value with decimal numbers
	Step 3	Order and compare place value of numbers with up to 2 decimal places
	Step 4	Estimate decimal numbers
	Step 5	Decimal equivalence to tenths, hundredths, ¼, ½ and ¾
	Step 6	Round decimal numbers to nearest whole numbers
	Step 7	x and ÷ by 10 and 100
5LS3 Place Value of Numbers with up to Three Decimal Places	Step 1	Recognising and comparing tenths and hundredths
	Step 2	Comparing numbers with up to 2 decimal places
5LS4 Multiple and divide by 10, 100 and 1000	Step 1	Multiplying by 10, 100 and 1000
	Step 2	Multiplying by 10, 100 and 1000 (including decimals)
	Step 3	Dividing by 10, 100 and 1000 (including decimals)
	Step 4	Multiplying and dividing by 10, 100 and 1000
5LS13 Equivalent fractions	Step 2	Recognise and create equivalent fractions

5LS22 Percentages	Step 1	Understand that per cent relates to the number of parts per hundred
	Step 2	Express parts per hundred as fractions, decimals and percentages
	Step 3	Use scaling to identify percentages
	Step 4	Identify common equivalent fractions, decimals and percentages
Fractions of quantities – Finding fractions of amounts		
5LS22 Percentages	Step 5	Calculate percentages by finding fractions of
	Step 6	Develop strategies to calculate percentages
5LS23 Problem Solving - Percentages	Step 1	Convert between fractions, decimals and percentages
	Step 2	Draw a model to calculate a percentage
	Step 3	Draw a model to calculate the whole
	Step 4	Solve a range of percentage problems
5LS33 Fractions, decimals and percentages – problem solving	Step 1	Revising proportions and scaling
	Step 3	Comparing proportions represented differently
	Step 4	Solving multi-step problems
6LS2 Multiple and Divide by 10, 100, 1000 giving answers up to three decimal places	Step 1	Develop fluency of multiplying and dividing by 10, 100 and 1000
6LS12 Fraction and decimal equivalents	Step 2	Decimal and fraction equivalents
6LS13 Fractions, decimals and percentages	Step 1	Making connections between fraction, decimals and percentages
	Step 2	Recall and use equivalences
6LS14 Calculating percentages	Step 1	Explore a range of strategies to calculate percentages
	Step 2	Solve problems involving the calculation of percentages
6LS26 Measures	Step 1	Clarify what is known about measures and converting them

Pre-requisite learning	**EFFC: Pattern and Group Recognition** – notice and copy groups, recognise equal groups **R: RLS5 – Classification, RLS14 – Doubling and Halving**	
	1LS26: Multiplication and division – equal or unequal groups	
1LS29 Multiplication – Scaling and Counting in 2s to 24	Step 1	Exploring scaling
	Step 2	Twice as long
	Step 3	Twice as many - patterns
	Step 4	Twice as many - recipe
2LS25 Multiplication Problem Solving	Step 1	Bar modelling for multiplication problems
	Step 2	Multiplication of measures
	Step 3	Multiplication and money (£ and p)
	Step 4	Mixed worded problems
3LS20 Multiplication and Division Worded Problems	Step 1	Worded problems based on equal groups
	Step 2	Rate worded problems involving money
	Step 3	Combination worded problems
	Step 4	Mixed bar model examples including measures and time
Pre-requisite learning	**Multiplication Facts**	
3LS27 Division Problem Solving – Sharing and Grouping	Step 1	Division by sharing – part whole problems
	Step 2	Division by sharing – comparison problems
	Step 3	Division by grouping
	Step 4	Using known facts to solve missing number problems
Pre-requisite learning	**Fractions of quantities**	
3LS29 Multiplication, Division and Fractions – Scaling and Correspondence Problems	Step 1	Solving integer scaling problems
	Step 2	Varying the unknown within correspondence problems
	Step 3	Mixed problems involving fractions

4LS7 Factor Pairs, Integer Scaling and Correspondence Problems	Step 2	Solving integer scaling and correspondence problems
	Step 3	Exploring correspondence problems
	Step 4	Solving a range of correspondence problems
	Step 5	Creating their own correspondence problems
5LS19 Measure – Converting Units of Measure	Step 2	Converting from a larger unit to a smaller unit
	Step 3	Converting from a smaller unit to a larger unit
	Step 4	Mixed conversion practice
	Step 5	Scaling measures
Pre-requisite learning	**Percentages**	
5LS22 Percentages	Step 3	Use scaling to identify percentages
5LS31 Solving Problems by Scaling by Simple Fractions and Rates	Step 1	Model scaling and correspondence problems
	Step 2	Scaling by simple fractions
	Step 3	Scaling by simple rates
	Step 4	Scale drawings
5LS32 Imperial and Metric Conversions	Step 3	Imperial units of measure - pints
	Step 4	Imperial units of measure - inches
	Step 5	Imperial units of measure - pounds
Pre-requisite learning	**Comparing and ordering fractions including equivalence**	
6LS24 Ratio and Proportion	Step 1	Simplifying ratios
	Step 2	Different types of comparisons: part to part and part to whole
	Step 3	Solving problems with ratio – given the ratio and one part or the whole
	Step 4	Solving problems with ratio – given the ratio and the difference
	Step 5	Solving problems with ratio – given the parts
	Step 6	Scaling problems
	Step 7	Scale factors
6LS27 Interpret Line Graphs and Pie Charts	Step 1	Understanding pie charts
	Step 2	Interpreting simple pie charts
	Step 5	Conversion graphs
6LS32 Constructing Pie Charts	Step 2/3	Constructing simple pie charts
6LS33 Statistical Representations	Step 2	More misleading graphs

Measurement progression

3LS5 Mental Fluency - Addition	Step 6	Finding complements and reordering
	Step 7	Using compensation to add

	Step 8	Using multiple strategies to add mentally
3LS8 Written Addition	Step 5	Using measurement units within addition
3LS10 Problem Solving - worded problems	Step 2	Understanding start, change and result problems
	Step 5	Understanding simple comparison problems
3LS20 Multiplication and division worded problems	Step 1	Worded problems based on equal groups
	Step 2	Rate worded problems involving money
3LS21 Fractions – finding fractions of discrete and continuous quantities	Step 3	Find and write fractions as continuous quantities
	Step 4	A range of worded problems including multi-step
3LS27 Division problem solving – sharing and grouping	Step 2	Division by sharing – comparison problems
	Step 3	Division by grouping
3LS34 Securing the four operations with whole number including problem solving	Step 3	Adding amounts of money
	Step 4	Subtracting amounts of money
	Step 5	Worded problems involving money
4LS18 Measure - money	Step 1	Calculating with money – mental and written addition
	Step 2	Calculating with money – mental and written subtraction
4LS19 Problem solving involving decimals to 2 decimal places	Step 3	Routine problem solving
Year 5 & 6: Application of money as a measure across all learning including four operations and scaling		
Multiplication and Division: Multiplying and Dividing by 10, 100 and 1000		
6LS2 Multiply and Divide by 10, 100 and 1,000	Step 2	Application in the context of measure

3LS1 Place Value and Regrouping	Step 1	Varying the order and practice
3LS4 Measures – comparison, estimation and magnitude	Step 1	Develop understanding of appropriate units
3LS5 Mental Fluency - Addition	Step 6	Finding complements and reordering
	Step 7	Using compensation to add
	Step 8	Using multiple strategies to add mentally
3LS8 Written Addition	Step 5	Using measurement units within addition
3LS20 Multiplication and division worded problems	Step 1	Worded problems based on equal groups
	Step 4	Mixed bar model examples including measures and time
3LS21 Fractions – finding fractions of discrete and continuous quantities	Step 3	Find and write fractions as continuous quantities
	Step 4	A range of worded problems including multi-step
3LS25 Multiplication – Multiplying multiples of ten	Step 1	Explore the effect of scaling by ten
3LS35 Place value and decimals	Step 1	Ten times smaller than 1 whole is a tenth
3LS38 Measures – measuring and problem solving	Step 1	Measuring and comparing lengths
	Step 3	Using and comparing mixed units
	Step 4	Adding and subtracting involving measures
	Step 5	Measure problems involving scaling
4LS2 Rounding, estimation and magnitude	Step 1	Estimate number magnitude

4LS7 Factor pairs, integer scaling and correspondence problems	Step 2	Solving integer scaling and correspondence problems
	Step 4	Solving a range of correspondence problems
	Step 5	Creating correspondence problems
4LS8 Problem solving including measures	Step 1	Addition and subtraction problems involving measures
	Step 2	Exploring multiplication
	Step 3	Linking multiplication and division on the bar model
	Step 4	Exploring division
	Step 5	Rearranging multiplication and division models and word problems
	Step 6	Two step problems involving all four operations
4LS9 Multiply and divide a 1- or 2- digit number by 10 and 100	Step 1	Multiplying and dividing by 10 – understanding the effect
4LS10 Measure – Conversion of units	Step 1	Converting between units of length – understanding the calculations needed
4LS11 Measure – compare, estimate and calculate	Step 1	Measuring, estimating, and comparing length
	Step 3	Calculating with length, mass and capacity
4LS22 Fractions in the context of measure	Step 1	Recognising familiar fractions expressed as measures
	Step 2	Ordering measures involving fractions
	Step 3	Mixed worded problems involving a range of measures
5LS3 Place value of numbers with up to 3 decimal places	Step 2	Comparing numbers with up to 2 decimal places
Multiplication and Division: Multiplying and Dividing by 10, 100 and 1000		
5LS19 Measure – Converting Units of Measure	Step 1	Decimal and fraction equivalences of metric measures
	Step 2	Converting from a larger unit to a smaller unit
	Step 3	Converting from a smaller unit to a larger unit
	Step 4	Mixed conversion practice
	Step 5	Scaling measures
5LS31 Solving Problems by Scaling by Simple Fractions and Rates	Step 4	Scale drawings
5LS32 Imperial and Metric Conversions	Step 1	Metric conversion
	Step 2	Metric scale drawings
	Step 4	Imperial units of measure - inches
5LS37 Use Properties of Rectangles	Step 1	Calculating missing lengths in rectangles and shapes or patterns including rectangles

6LS2 Multiply and Divide by 10, 100 and 1,000	Step 2	Application in the context of measure
6LS26 Measures	Step 1	Clarify what is known about measures and converting them
	Step 2	Apply knowledge of measures and conversions to solving problems
	Step 3	Explore the link between miles and kilometres (imperial and metric units of length)
6LS31 Application of previous years' learning	Step 1	Draw 2-D shapes including scaling

Pre-requisite learning	**Measurement - Length**	
3LS15 Perimeter including problem solving using written and mental methods	Step 1	Understand perimeter as distance around the sides of a closed shape – constructing perimeterand introducing the language of length and width
	Step 2	Calculate perimeter in rectilinear shapes (presented on 1cm² squared paper)
	Step 3	Know that different rectangles can have equal perimeters
	Step 4	Finding the perimeter of regular shapes
	Step 5	Finding perimeter of rectangles and regular polygons by measuring
	Step 6	Solving problems and providing proof with perimeter
4LS13 Perimeter	Step 1	Revisiting existing knowledge about perimeter
	Step 2	Calculating perimeter of rectangle shapes with missing sides
	Step 3	Solving problems involving perimeter of rectilinear shapes with missing information
	Step 4	Solving correspondence problems involving perimeter of rectilinear shapes
4LS35 Area	Step 1	Find area of rectilinear shapes by counting squares
	Multiplication and Division: Multiplication Facts - building arrays	
	Step 2	Relate finding area of rectilinear shapes to arrays up to 12 x 12
	Step 3	Problem solving with area
	Step 4	Area and perimeter
5LS20 Area	Step 1	Develop strategies to estimate the area of irregular shapes
	Step 2	Estimate area using standard units
	Step 3	Calculate and compare the area of rectangles
	Step 4	Find unknown measures when calculating area
	Step 5	Working backwards to calculate measures from a given area

5LS21 Volume and Capacity	Step 1	Square numbers and area
5LS26 Perimeter	Step 1	Calculate the perimeter of rectilinear figures (rectangles and squares)
	Step 2	Calculate the perimeter of composite rectilinear shapes
	Step 3	Solve problems using knowledge of perimeter and area
5LS37 Use Properties of Rectangles	Step 1	Calculating missing lengths in rectangles and shapes or patterns including rectangles
6LS7 Area of Parallelograms and Triangles	Step 1	Calculating the area of rectilinear and composite shapes
	Step 2	Finding the area of right-angled triangles
	Step 3	Calculating the area of triangles
	Step 4	Calculating the area of parallelograms
	Step 5	Solving problems involving area of rectangles, triangles and parallelograms
6LS18 Exploring Relationships Between Perimeter and Area	Step 1	Consolidation understanding of perimeter
	Step 2	Consolidation finding the area of rectilinear shapes, parallelograms and triangles
	Step 3	Investigate shapes with the same area but different perimeters and vice-versa
	Step 4	Solve problems involving area and perimeter

3LS5 Mental Fluency - Addition	Step 6	Finding complements and reordering
	Step 7	Using compensation to add
	Step 8	Using multiple strategies to add mentally
3LS8 Written Addition	Step 5	Using measurement units within addition
3LS20 Multiplication and division worded problems	Step 1	Worded problems based on equal groups
	Step 4	Mixed bar model examples including measures and time
3LS25 Multiplication – Multiplying multiples of ten	Step 1	Explore the effect of scaling by ten
3LS38 Measures – measuring and problem solving	Step 2	Measuring and comparing mass, volume and capacity
	Step 3	Using and comparing mixed units
	Step 4	Adding and subtracting involving measures
	Step 5	Measure problems involving scaling
4LS8 Problem solving including measures	Step 1	Addition and subtraction problems involving measures
	Step 2	Exploring multiplication
	Step 3	Linking multiplication and division on the bar model
	Step 4	Exploring division
	Step 5	Rearranging multiplication and division models and word problems
	Step 6	Two step problems involving all four operations
4LS10 Measure – Conversion of units	Step 2	Converting between units of mass and capacity – understanding the calculations needed
4LS11 Measure – compare, estimate and calculate	Step 2	Measuring, comparing and estimating with mass and capacity
	Step 3	Calculating with length, mass and capacity
4LS22 Fractions in the context of measure	Step 1	Recognising familiar fractions expressed as measures
	Step 2	Ordering measures involving fractions
	Step 3	Mixed worded problems involving a range of measures
5LS3 Place value of numbers with up to 3 decimal places	Step 2	Comparing numbers with up to 2 decimal places
Multiplication and Division: Multiplying and Dividing by 10, 100 and 1000		
5LS19 Measure – Converting units of measure	Step 1	Decimal and fraction equivalences of metric measures
	Step 2	Converting from a larger unit to a smaller unit
	Step 3	Converting from a smaller unit to a larger unit
	Step 4	Mixed conversion practice
	Step 5	Scaling measures

5LS21 Volume and Capacity	Step 1	Square numbers and area
	Step 2	Build cube numbers
	Step 3	Investigate the volume of cuboids
	Step 4	Estimating volume and capacity
5LS32 Imperial and Metric Conversions	Step 1	Metric conversion
	Step 3	Imperial units of measure - pints
6LS2 Multiply and Divide by 10/100/1,000	Step 2	Application in the context of measure
6LS25 Volume	Step 1	Visualise and calculate the volume of cubes
	Step 2	Calculate and compare volumes
6LS26 Measures	Step 1	Clarify what is known about measures and converting them
	Step 2	Apply knowledge of measures and conversions to solving problems

3LS1 Place Value and Regrouping	Step 1	Varying the order and practice
3LS4 Measures – comparison, estimation and magnitude	Step 2	Reading scales
3LS5 Mental Fluency - Addition	Step 6	Finding complements and reordering
	Step 7	Using compensation to add
	Step 8	Using multiple strategies to add mentally
3LS8 Written Addition	Step 5	Using measurement units within addition
3LS20 Multiplication and division worded problems	Step 1	Worded problems based on equal groups
	Step 4	Mixed bar model examples including measures and time
3LS21 Fractions – finding fractions of discrete and continuous quantities	Step 3	Find and write fractions as continuous quantities
	Step 4	A range of worded problems including multi-step
3LS38 Measures – measuring and problem solving	Step 2	Measuring and comparing mass, volume and capacity
	Step 3	Using and comparing mixed units
	Step 4	Adding and subtracting involving measures
	Step 5	Measure problems involving scaling
4LS7 Factor pairs, integer scaling and correspondence problems	Step 2	Solving integer scaling and correspondence problems
	Step 4	Solving a range of correspondence problems
	Step 5	Creating correspondence problems
4LS8 Problem solving including measures	Step 1	Addition and subtraction problems involving measures
	Step 2	Exploring multiplication
	Step 3	Linking multiplication and division on the bar model
	Step 4	Exploring division
	Step 5	Rearranging multiplication and division models and word problems
	Step 6	Two step problems involving all four operations
4LS10 Measure – Conversion of units	Step 2	Converting between units of mass and capacity – understanding the calculations needed
4LS11 Measure – compare, estimate and calculate	Step 2	Measuring, comparing and estimating with mass and capacity
	Step 3	Calculating with length, mass and capacity

4LS22 Fractions in the context of measure	Step 1	Recognising familiar fractions expressed as measures
	Step 2	Ordering measures involving fractions
	Step 3	Mixed worded problems involving a range of measures
5LS3 Place value of numbers with up to 3 decimal places	Step 2	Comparing numbers with up to 2 decimal places
Multiplication and Division: Multiplying and Dividing by 10, 100 and 1000		
5LS19 Measure – Converting Units of Measure	Step 1	Decimal and fraction equivalences of metric measures
	Step 2	Converting from a larger unit to a smaller unit
	Step 3	Converting from a smaller unit to a larger unit
	Step 4	Mixed conversion practice
	Step 5	Scaling measures
5LS32 Imperial and Metric Conversions	Step 1	Metric conversion
	Step 5	Imperial units of measure - pounds
6LS2 Multiply and Divide by 10, 100 and 1,000	Step 2	Application in the context of measure
6LS26 Measures	Step 1	Clarify what is known about measures and converting them
	Step 2	Apply knowledge of measures and conversions to solving problems

3LS10 Problem Solving - worded problems	Step 2	Understanding start, change and result problems
3LS12 Angles, right angles and estimation	Step 2	Comparing and ordering angles (using right angle as a benchmark)
3LS20 Multiplication and division worded problems	Step 1	Worded problems based on equal groups
	Step 4	Mixed bar model examples including measures and time
3LS21 Fractions of discrete and continuous quantities	Step 3	Find and write fractions as continuous quantities
	Step 4	A range of worded problems including multi-step
3LS31 Time: hours, minutes, seconds, days, weeks, months, years	Step 1	Understand how days, months and years are related
	Step 2	Finding complements and intervals of 60
3LS32 Time: telling the time (analogue and digital) and estimation	Step 1	Recognising intervals on an analogue clock
	Step 2	Telling the time to the nearest minute on an analogue and digital clock
	Step 3	Understanding Roman numerals on clocks
	Step 4	Understanding am and pm
	Step 5	Estimating time and using timers
3LS33 Time - duration	Step 1	Time to the nearest hour
	Step 2	Adding hours and minutes
	Step 3	Subtracting hours and minutes
	Step 4	Duration of time
	Step 5	Finding unknown start and end times from given duration of events
	Step 6	Comparing the duration of events

4LS10 Measure – Conversion of units	Step 3	Converting hours to minutes
	Step 4	Converting minutes to hours and hours to minutes
	Step 5	Converting between units of time – understanding the calculations needed
4LS11 Measure – compare, estimate and calculate	Step 4	Calculating time addition (hours and minutes)
	Step 5	Calculating time subtraction (hours and minutes)
	Step 6	Calculating duration of time (hours and minutes)
4LS12 Discrete and continuous data	Step 2	Interpreting continuous data
	Step 3	Presenting data – choosing the best way to present it
4LS26 Time – read, write, calculate and convert time	Step 1	12- and 24-hour clock
	Step 2	Understanding and calculating duration
	Step 3	Find unknown start or end times when duration is known
	Step 4	Converting hours, minutes and seconds
	Step 5	Converting days to weeks and months to years
5LS19 Measure – Converting Units of Measure	Step 2	Converting from a larger unit to a smaller unit
	Step 3	Converting from a smaller unit to a larger unit
	Step 4	Mixed conversion practice
5LS34 Reading timetables and calculating with time	Step 1	Exploring what we know about telling the time and converting units of time
	Step 2	Reading and interpreting timetables
	Step 3	Completing missing information in timetables
	Step 4	Solving problems involving completing and reading timetables and calculating with time
6LS26 Measures	Step 1	Clarify what is known about measures and converting them
	Step 2	Apply knowledge of measures and conversions to solving problems
6LS31 Application of previous years' learning	Step 3	Revise reading, writing, converting and applying understanding of time

Geometry progression

Angles – a measure of turn		
3LS12 Angles, right angles and estimation	Step 3	Identify internal angles in 2-D shapes
	Step 4	Classifying shapes using internal angles as a property
Angles – perpendicular and parallel lines		
3LS13 Perpendicular and parallel lines	Step 4	Parallel and perpendicular (sides in shapes and lines)
3LS14 2-D shape – properties and drawing	Step 1	Connect the number of sides to the number of angles (and vertices) in a polygon
	Step 2	Classifying regular and irregular polygons
	Step 3	Drawing and constructing polygons (property focus on vertices and congruence)
	Step 4	Drawing and constructing polygons (properties)
3LS39 3-D shape – build and properties	Step 3	Describing the faces of polyhedra

4LS14 Properties of shape	Step 1	Revisiting properties of lines
	Step 2	Properties of shape – vocabulary focus
	Step 3	Classifying quadrilaterals
	Step 4	Drawing quadrilaterals
4LS15 Symmetry	Step 1	Recognising reflective symmetry in simple shapes
	Step 2	Recognising lines of symmetry in regular and irregular polygons
	Step 3	Constructing symmetrical shapes
	Step 4	Constructing quadrilaterals with a specific number of lines of symmetry
Angles – acute and obtuse		
4LS30 Geometry - angles	Step 3	Identifying acute and obtuse angles within geometric shapes
4LS31 Geometry – properties of triangles	Step 1	Describing the properties of triangles
	Step 2	Classifying triangles (equilateral, scalene or isosceles)
	Step 3	Classifying triangles according to more than one property
Position and translation – coordinates in the first quadrant		
4LS33 Geometry – position and direction incorporating angles and plotting points of a shape	Step 1	Plotting points to create polygons
	Step 2	Identifying coordinates to create polygons
5LS36 Distinguish between regular and irregular polygons	Step 1	Classify polygons as regular or irregular
	Step 2	Revisit 2-D shape vocabulary including regular and irregular
	Angles – draw angles	
	Step 3	Construct regular polygons, including using a protractor
5LS37 Use properties of rectangles	Step 1	Calculating missing lengths in rectangles and shapes
	Step 2	Using knowledge of rectangles and angles to calculate missing angles
6LS15 Properties of shape	Step 1	Using the language of 2-D shapes
	Step 2	Classifying 2-D shapes – triangles
	Step 3	Classifying 2-D shapes – quadrilaterals
	Step 4	Parts of circles
	Step 5	Use the relationship between radius and diameter
Position and translation – coordinates in all four quadrants		
6LS20 Reflection and translation	Step 3	Draw and label shapes in all four quadrants
	Step 4	Translate shapes in all four quadrants
	Step 5	Reflect shapes in all four quadrants
Fractions, Decimals and Percentages: Percentages – calculating percentages		
6LS32 Constructing pie charts	Step 2	Construct simple pie charts - constructing circles
	Step 3	Construct simple pie charts – divide a circle into segments

3LS39 3-D shape – building and identifying properties	Step 1	Building three-dimensional shapes
	Step 2	Recognising three-dimensional shapes in different orientations
	Step 3	Describing the faces of polyhedra
	Step 4	Describing three-dimensional shapes
5LS24 3-D shapes from 2-D representations	Step 1	Define cuboids and cubes
	Step 2	Understand nets
	Step 3	Draw nets using given measurements
6LS15 Properties of shape	Step 6	Naming and identifying the properties of 3-D shapes
	Step 7	Building 3-D shapes from nets

3LS12 Angles, right angles and estimation	Step 1	Angles are measures of a turn
	Step 2	Comparing and ordering angles (using right angle as a benchmark)
	Step 3	Identify internal angles in 2-D shapes
	Step 4	Classifying shapes using internal angles as a property

3LS13 Perpendicular and parallel lines, horizontal and vertical lines	Step 1	Perpendicular lines are lines that will meet at a right angle to each other (where lines are vertical and horizontal)
	Step 2	Perpendicular lines are straight lines that will meet at a right angle to each other (where lines could also be diagonals)
	Step 3	Parallel lines are straight lines that have a constant distance between them and will never meet at a point
	Step 4	Parallel sides and sides that are perpendicular to each other in shapes and parallel and perpendicular lines on diagrams
	Step 5	Vertical lines are perpendicular to the horizon and horizontal lines are parallel to the horizon
3LS14 2-D shape – properties and drawing	Step 1	Connect the number of sides to the number of angles (and vertices) in a polygon
	Step 2	Classifying regular and irregular polygons
4LS30 Geometry - angles	Step 1	Comparing and ordering angles using the benchmark of a right angle
	Step 2	Identifying acute and obtuse angles
	Step 3	Identifying acute and obtuse angles within geometric shapes
5LS27 Estimate, compare, measure and draw angles	Step 1	Recap of prior angles learning including right angles and turns
	Step 2	Name, compare and order acute, obtuse, reflex and right angles
	Step 3	Measure angles accurately with a protractor
	Step 4	Estimate angles in degrees and check by measuring
	Step 5	Draw angles
5LS28 Identify Unknown Angles	Step 1	Angles in a right angle and on a straight line
	Step 2	Angles around a point or whole turn
5LS36 Distinguish between regular and irregular polygons	Step 1	Classify polygons as regular or irregular
	Step 3	Construct regular polygons, including using a protractor
5LS37 Use Properties of Rectangles	Step 2	Using knowledge of rectangles and angles to calculate missing angles rectangles
6LS19 Recognise and Find Angles	Step 1	Recognise and name angles
	Step 2	Investigate vertically opposite angles
	Step 3	Find missing angles from known facts
Fractions, Decimals and Percentages: Percentages – calculating percentages		
6LS32 Constructing pie charts	Step 2	Constructing simple pie charts. Part one – the process and constructing circles
	Step 3	Constructing simple pie charts. Part two – dividing up a circle into the segments

3LS13 Perpendicular and parallel lines, horizontal and vertical lines	Step 1	Perpendicular lines are lines that will meet at a right angle to each other (where lines are vertical and horizontal)
	Step 2	Perpendicular lines are straight lines that will meet at a right angle to each other (where lines could also be diagonals)
	Step 3	Parallel lines are straight lines that have a constant distance between them and will never meet at a point
	Step 4	Parallel sides and sides that are perpendicular to each other in shapes and parallel and perpendicular lines on diagrams
	Step 5	Vertical lines are perpendicular to the horizon and horizontal lines are parallel to the horizon
4LS32 Geometry – coordinates in first quadrant and translations	Step 1	Using coordinates to describe position on a 2-D grid
	Step 2	Describing movements between positions as translations
4LS33 Geometry – position and direction incorporating angles and plotting points of a shape	Step 1	Plotting points to create polygons
	Step 2	Identifying coordinates to create polygons
5LS25 Reflection and translation	Step 1	Translate shapes
	Step 2	Reflect patterns and shapes
	Step 3	Translate and reflect in the first quadrant
6LS20 Reflection and translation	Step 1	Draw and label axes in all four quadrants
	Step 2	Plot positions on the full coordinate grid
	Step 3	Draw and label shapes in all four quadrants
	Step 4	Translate shapes in all four quadrants
	Step 5	Reflect shapes in all four quadrants

Statistics progression

3LS11 Statistics – interpreting bar charts and tables	Step 1	Purpose of bar charts
	Step 2	Completing bar charts from information provided – identifying intervals of scales
	Step 3	Interpreting and inferring information from bar charts (including multi-step questions)
	Step 4	More complex bar chart problems
3LS19 Statistics – pictograms and scaled bar charts	Step 1	Making links between bar charts and pictograms
	Step 2	Completing pictograms from information provided
	Step 3	Interpreting and inferring information from pictograms (including multi-step questions)
4LS12 Discrete and Continuous Data (time graphs), including application of scales and division	Step 1	Interpreting discrete data – reading scales on pictograms and bar charts
	Continuous data – interpret continuous data (4LS12)	
	Step 3	Presenting data – choosing the best way to present it
4LS27 Statistics – Interpret and present continuous and discrete data, solve problems incorporating measures	Step 1	Understanding and interpreting discrete data
5LS16 Problem Solving – all four operations	Step 2	Interpreting statistical information
5LS38 Statistics – Solve comparison, sum and difference problems using information in a line graph	Step 1	Use data to make comparisons and calculate sum or difference
5LS39 Statistics – Interpreting and evaluating information presented in charts and tables	Step 1	Compare representations of data in text and tables
	Step 2	Choose appropriate data representations
	Step 3	Evaluate different data representations

6LS29 Statistics – Calculate and interpret mean average	Step 1	Understand and calculate the mean
	Step 2	Apply understanding of the mean
6LS33 Statistical representations	Step 1	Is all data fair?
	Step 2	More misleading graphs
	Step 3	Considering data which distorts
	Step 4	Applying skills

Pre-requisite learning	**Bar charts, pictograms and tables:** Read scales, use comparative language, interpret discrete data presented in a variety of ways	
4LS12 Discrete and Continuous Data (time graphs), including application of scales and division	Step 1	Interpreting discrete data – reading scales on pictograms and bar charts
	Step 2	Interpreting continuous data
	Step 3	Presenting data – choosing the best way to present it
4LS27 Statistics – Interpret and present continuous and discrete data, solve problems incorporating measures	Step 1	Understanding and interpreting discrete data
	Step 2	Identifying increase and decrease in line graphs
	Step 3	Time and distance graphs
	Step 4	Line graphs with constant relationship between variables
5LS16 Problem Solving – all four operations	Step 2	Interpreting statistical information
5LS38 Statistics – Solve comparison, sum and difference problems using information in a line graph	Step 1	Use data to make comparisons and calculate sum or difference
	Step 2	Use information in a line graph to compare and calculate
	Step 3	Solve problems using information in line graphs
5LS39 Statistics – Interpreting and evaluating information presented in charts and tables	Step 1	Compare representations of data in text and tables
	Step 2	Choose appropriate data representations
	Step 3	Evaluate different data representations
6LS27 Statistics – Interpret line graphs and pie charts	Step 3	Reviewing line graphs
	Step 4	Interpreting comparison graphs
	Step 5	Conversion graphs
6LS29 Statistics – Calculate and interpret mean average	Step 1	Understand and calculate the mean
	Step 2	Apply understanding of the mean
6LS30 Application of Previous Years' Learning	Step 3	Revise reading, writing, converting and applying understanding of time
6LS33 Statistical representations	Step 1	Is all data fair?
	Step 2	More misleading graphs
	Step 3	Considering data which distorts
	Step 4	Applying skills

3LS32 Time: telling the time (analogue and digital) and estimation	Step 1	Recognising intervals on an analogue clock
	Step 2	Telling the time to the nearest minute on an analogue and digital clock
	Step 4	Understanding am and pm
3LS33 Time - duration	Step 4	Duration of time
	Step 5	Finding unknown start and end times from given duration of events
	Step 6	Comparing the duration of events
4LS11 Measure – compare, estimate and calculate	Step 4	Calculating time addition (hours and minutes)
	Step 5	Calculating time subtraction (hours and minutes)
	Step 6	Calculating duration of time (hours and minutes)
4LS26 Time – read, write, calculate and convert time	Step 1	12- and 24-hour clock
	Step 2	Understanding and calculating duration
	Step 3	Find unknown start or end times when duration is known

5LS34 Reading timetables and calculating with time	Step 1	Exploring what we know about telling the time and converting units of time
	Step 2	Reading and interpreting timetables
	Step 3	Completing missing information in timetables
	Step 4	Solving problems involving completing and reading timetables and calculating with time
5LS39 Statistics – Interpreting and evaluating information presented in charts and tables	Step 1	Compare representations of data in text and tables
	Step 2	Choose appropriate data representations
	Step 3	Evaluate different data representations
6LS30 Application of Previous Years' Learning	Step 3	Revise reading, writing, converting and applying understanding of time

5LS16 Problem Solving – all four operations	Step 2	Interpreting statistical information
6LS27 Statistics – Interpret line graphs and pie charts	Step 1	Understanding pie charts
	Step 2	Interpreting a simple pie chart
	Step 4	Interpreting comparison graphs
6LS29 Statistics – Calculate and interpret mean average	Step 1	Understand and calculate the mean
	Step 2	Apply understanding of the mean
6LS32 Constructing pie charts	Step 1	Deciding whether a pie chart is appropriate
	Step 2	Constructing simple pie charts. Part one – the process and constructing circles
	Step 3	Constructing simple pie charts. Part two – dividing up a circle into the segments
6LS33 Statistical representations	Step 1	Is all data fair?
	Step 2	More misleading graphs
	Step 3	Considering data which distorts
	Step 4	Applying skills