Ecclesfield Primary School

	Autumn One	Autumn Two	Spring One	Spring Two	Summer One	Summer Two
F2	*Just like me!* -match and sort, compare amounts -compare size, mass & capacity, exploring pattern *It's me 1,2,3!* -representing, comparing, composition 1,2,3 -circles and triangles, positional language <u>Place value (to 2)</u> Matching and sorting amounts Comparing amounts Representing Counting forwards and backwards More/less Odd and even <u>Addition and Subtraction</u>	*It's me 1,2,3!* -representing, comparing, composition 1,2,3 *Light and dark* -representing numbers to 5, one more or less -shapes with 4 sides, time <u>Place value (to 5)</u> Comparing amounts Representing Counting forwards and backwards Odd and even <u>Addition and Subtraction</u> One more/less Composition Problem solving <u>Multiplication and division</u>	*Alive in 5* -introducing 0, comparing numbers to 5, composition of 4&5 -compare mass, compare capacity *Growing 6,7,8!* -making pairs, combining 2 groups -length & height, time <u>Place value (to 7)</u> Comparing amounts Representing Counting forwards and backwards Odd and even <u>Addition and Subtraction</u> One more/less Combining 2 groups Composition	*Growing 6,7,8!* -making pairs, combining 2 groups -length & height, time *Building 9 & 10* -comparing numbers to 10, number bonds to 10 -3D shape, pattern <u>Place value (to 10)</u> Comparing amounts Representing Counting forwards and backwards Odd and even <u>Addition and Subtraction</u> One more/less Combining 2 groups Composition	*To 20 and beyond* -building numbers beyond 10, counting patterns beyond 10 -spatial reasoning, math, rotate, manipulate *First then, now* -adding more, taking away - spatial reasoning, compose and decompose <u>Place value (to 20)</u> Comparing amounts Building numbers beyond 10 Counting patterns beyond 10 Odd and even	*Find my pattern* -doubling, sharing and grouping, even and odd -spatial reasoning, visualise and build *On the move* -deepening understanding, patterns and relationships - spatial reasoning, mapping <u>Place value (to 20)</u> Comparing amounts Building numbers beyond 10 Counting patterns beyond 10 Deepening understanding, patterns and relationships

	Composition *Multiplication and division* Doubling and halving *Shape, space and measures* Circles Positional language Compare size, mass and capacity, exploring pattern	Doubling and halving *Shape, space and measures* Triangles Rectangles Squares Pentagons time	Problem solving *Multiplication and division* Doubling and halving *Shape, space and measures* Comparing mass/capacity Length/height hexagons time	Number bonds to 10 Problem solving *Multiplication and division* Doubling and halving *Shape, space and measures* Length/height Time 3D shape Pattern	*Addition and Subtraction* Taking away Adding more *Shape, space and measures* Length/height Spatial reasoning Compose and decompose shapes	Odd and even *Addition and Subtraction* Taking away Adding more *Multiplication and division* Doubling and halving Sharing and grouping *Shape, space and measures* Length/height Spatial reasoning Compose and decompose shapes
Y1	*Place Value (Within 10)* Count and sort objects Represent numbers Recognise numbers and words Count forwards and backwards 1 more, 1 less Compare groups and numbers Fewer, more, same Greater, less, equal	*Addition and Subtraction (within 10)* Addition – add more and add together Subtraction – find a part and take away Fact families 1 more 1 less 2 more 2 less *Shape*	*Place Value (within 20)* Count forward and backwards to 20 Tens and Ones 1 more 1 less Compare / order numbers *Addition and Subtraction (within 20)* Add by making 10	*Place Value (within 50)* Compare and order numbers to 50 Count in 2s Count in 5s *Length and Height* Compare and order lengths and heights Measure length Adding and subtracting lengths	*Multiplication and Division* Count in 2s 5s 10s Make equal groups Add equal groups Arrays Doubles Make equal groups (grouping) Make equal groups (sharing) *Fractions* Making half	*Place Value (within 100)* Count forwards and back within 100 Partition, compare and order numbers 1 more 1 less *Measurement – Money* Recognise coins and notes Counting in coins

	Order numbers Number line **Addition and Subtraction** Parts and wholes Part-whole model Number sentences	Recognise name and sort 3D shapes Recognise name and sort 2D shapes Patterns of 2D and 3D shapes	Subtraction not crossing and crossing 10) Related facts Compare number sentences **Place Value (within 50)** Numbers to 50 Counting forwards and back to 50 Tens and ones 1 more 1 less	**Mass and Volume** Measure and compare mass Measure and compare volume/capacity	Making whole Finding half Making quarters Find quarters **Position and Direction** Describing turns and position	**Time** Before and after Time to the hour Time to the half hour Write time Compare time
Y2	**Place Value** Numbers to ten Count in 10s Tens and ones Recognise place value grid Partition and write numbers within 100 Number lines to 100 Estimate using number lines Compare numbers to 100 Order objects and numbers Count in 2s 5s 10s Count in 3s **Addition and Subtraction**	**Addition and Subtraction** 10 more 10 less Add and subtract 10s Add and subtract two 2-digit numbers not crossing ten and crossing ten Mixed addition and subtraction Compare calculations Missing number problems **Shape** Recognise and make 2D and 3D shapes	**Measurement- Money** Count pence Count pounds Count notes and coins Make amounts Compare amounts Find the total/difference Find change Two-step problems **Multiplication and Division** Recognise and make equal groups Add equal groups Use the x sign Multiplication number sentences	**Length and Height** Measure compare and order lengths Four operations with lengths **Mass, Capacity and Temperature** Measure and compare mass and volume Ml / l Four operations with mass/volume Reading temperature / reading scales	**Fractions** Parts and wholes Making equal parts Finding half Recognise and find quarters and thirds Unit and non-unit fractions Equivalence of two quarters and a half Find three quarters Count in fractions **Time** O'clock / half past Quarter past/to Tell the time to 5mins Write time Hours/days	**Statistics** Tally charts Pictograms Block diagrams **Position and Direction** Describe position, movement and turns Make patterns with shapes

	Bonds to 10 Fact families and bonds to 20 Bonds to 100 Add by making 10 Add three 1-digit numbers Add and subtract to next ten and across ten	Count sides and vertices on 2D shapes Draw 2D shapes Lines of symmetry Sort and make patterns with 2D shapes Count faces and edges on 3D shapes Sort and make patterns with 3D shapes	Use arrays Doubling Make equal groups (sharing/grouping) Odd even numbers Divide by 2 5 10		Durations	
Y3	**Place Value** Represent and partition numbers within 100 Number lines within 100 Represent and partition numbers to 1000 Number lines within 1000 One, ten, hundred more/less Estimate, compare and order numbers within 1000 Count in 50s **Addition and Subtraction** Apply number bonds Add and subtract 1s 10s 100s	**Multiplication and Division** Multiplication, equal groups Use arrays Multiples of 2 Multiples of 5 and 10 Sharing and grouping 3 times table, multiply and divide by 3 4 times table, multiply and divide by 4 8 times table, multiply and divide by 8 Multiply 2-digit by 1-digit no exchange and exchange	**Length and Perimeter** Measure length Compare lengths Equivalent lengths (mm/cm/m) Add and subtract lengths Measure perimeter Calculate perimeter **Money** Pounds/pence Convert pounds pence Add and subtract money Give change **Fractions** Recap half quarter thirds	**Fractions** Making a whole Finding tenths Fractions on a number line Making fractions of amounts of objects Equivalent fractions Compare and order fractions Add and subtract fractions	**Time** Months/years Hours in a day Tell the time to the minute Use am and pm 24-hour clock Durations Start and end times Measuring time in seconds **Mass and Capacity** Measure and compare mass Add and subtract mass Measure capacity/volume	**Shape** Turns/angles Right angles Compare angles Horizontal/vertical Parallel/ Perpendicular Recognise and name 2D and 3D shapes **Statistics** Pictograms Bar Charts Tables

	Add and subtract 2-digit numbers not crossing and crossing tens Add 2 and 3-digit numbers Subtract 2-digit from 3-digit Complements to 100 Estimate answers Inverse operations	Divide 2-digit by 1-digit Scaling **Shape** RECAP 2D and 3D shape names and properties Lines of symmetry	Unit and non-unit fractions Count in fractions		Compare capacity Add and subtract capacity Compare temperature	
Y4	**Place Value** Numbers to 10,000 Partitioning Number lines Comparing and ordering Rounding **Addition and Subtraction** Add/subtract 1, 10, 100 Add/subtract 4-digit numbers no exchanging to exchanging Estimating and checking answers	**Area** Calculate by counting squares Compare area of shapes RECAP Recognise and name 2D and 3D shapes **Multiplication and Division** Multiples Times Tables Multiplying and dividing by individual tables Multiplying and dividing by 1 or 0	**Multiplication and Division** Multiply by 10 100 11 12 times table Multiply 3 numbers Factor pairs Written methods Multiply 2 and 3-digit by 1-digit Divide 2 and 3-digit by 1-digit **Length and Perimeter** Kilometres Perimeter of rectangles and rectilinear shapes **Fractions** Equivalent fractions Fractions greater than 1	**Fractions** Add and subtract fractions Fractions of amounts **Decimals** Tenths and hundredths Tenths on place value grid and number line Divide by 10 Hundredths on place value grid and number lines Divide by 100	**Decimals** Make a whole Write decimals Compare order and round decimals Halve and quarters **Money** Pounds and pence Order and estimate amounts Calculate with money **Time** Hours minutes seconds Days months years Analogue to digital 12 and 24-hour	**Shape** Identify compare and order angles Triangles Quadrilaterals Lines of symmetry and complete symmetrical patterns **Statistics** Interpret charts Comparison sum and difference Line graphs **Position and Direction** Describe position and movement on a grid

			Count in fractions			
Y5	**Place Value and Number Sense** 5,6,7,8-digit numbers - Reading and writing - Counting in multiples of 10/100/1000 from various starting points - Identifying value of digits - Placing on number line - Partitioning - Manipulating value of digits within numbers - Ordering - Rounding to various degrees - Decimals to 2dp Roman numerals **Decimals** Decimal sequences **Addition and Subtraction** Add whole numbers with more than	**Multiplication and Division** Multiplying and dividing by 10, 100, 1000 (Link to place value) Multiplying and dividing by multiples of 10, 100, 1000 using known facts **Fractions** Recap properties of 2D shape (see MTP) Find fractions equivalent to a unit fraction Find fractions equivalent to a non-unit fraction Recognise equivalent fractions Convert improper fractions to mixed numbers Convert mixed numbers to improper fractions Compare fractions less than one	**Multiplication and Division** Mental strategies Written methods Inverse operations **Fractions** Multiply fractions Find fractions of amounts Use fractions as operators **Decimals and Percentages** Decimals as fractions Thousandths Rounding decimals	**Decimals and Percentages** Compare and order decimals Understand percentages Equivalent FDP **Shape** RECAP 2D and 3D shape properties Measuring and drawing angles Triangles Quadrilaterals Regular/irregular **Area and Perimeter** Measure and calculate perimeter Calculate area of rectangles, compound shapes, irregular shapes	**Statistics** Reading charts Reading line graphs Understand two-way tables and timetables **Position and Direction** Coordinates Translation Reflection	**Negative Numbers** Number lines Calculating with negative numbers **Converting Units** Km, m, cm, mm Kg, g Units of time Imperial units **Volume** Calculate volume Estimate volume and capacity

	four digits and decimals Subtract whole numbers with more than four digits and decimals Round to check answers Inverse operations (addition and subtraction) Multi-step addition and subtraction problems Compare calculations Find missing numbers **Multiplication and Division** Multiples Common multiples Factors Common Factors	Order fractions less than one Compare and order fractions greater than one Add and subtract fractions with the same denominator Add fractions within one Add fractions with a total greater than one Add to a mixed number Add two mixed numbers Subtract fractions Subtract from a mixed number Subtract from a mixed number – breaking the whole				
Y6	**Number and Place Value** **Step 1** Numbers to 1,000,000 **Step 2** Numbers to 10,000,000	**Fractions A** **Step 1** Equivalent fractions and simplifying **Step 2** Equivalent fractions on a number line	**Ratio** **Step 1** Add or multiply? **Step 2** Use ratio language **Step 3** Introduction to the ratio symbol	**FDP** **Step 1** Decimal and fraction equivalents **Step 2** Fractions as division **Step 3** Understand percentages	**Geometry (Shape)** **Step 1** Measure and classify angles **Step 2** Calculate angles **Step 3** Vertically opposite angles	Y7 Preparation and Revision

	Step 3 Read and write numbers to 10,000,000 **Step 4** Powers of 10 **Step 5** Number line to 10,000,000 **Step 6** Compare and order any integers **Step 7** Round an integer **Step 8** Negative numbers **Addition, Subtraction, Multiplication, Division** **Step 1** Add and subtract integers **Step 2** Common factors **Step 3** Common multiples **Step 4** Rules of divisibility **Step 5** Primes to 100 **Step 6** Square and cube numbers **Step 7** Multiply up to a 4-digit number	**Step 3** Compare and order (denominator) **Step 4** Compare and order (numerator) **Step 5** Add and subtract simple fractions **Step 6** Add and subtract any two fractions **Step 7** Add mixed numbers **Step 8** Subtract mixed numbers **Step 9** Multi-step problems **Fractions B** **Step 1** Multiply fractions by integers **Step 2** Multiply fractions by fractions **Step 3** Divide a fraction by an integer **Step 4** Divide any fraction by an integer **Step 5** Mixed questions with fractions	**Step 4** Ratio and fractions **Step 5** Scale drawing **Step 6** Use scale factors **Step 7** Similar shapes **Step 8** Ratio problems **Step 9** Proportion problems **Step 10** Recipes **Algebra** **Step 1** 1-step function machines **Step 2** 2-step function machines **Step 3** Form expressions **Step 4** Substitution	**Step 4** Fractions to percentages **Step 5** Equivalent fractions, decimals and percentages **Step 6** Order fractions, decimals and percentages **Step 7** Percentage of an amount – one step **Step 8** Percentage of an amount – multi-step **Step 9** Percentages – missing values **Measurement (Area, perimeter, volume)**	**Step 4** Angles in a triangle **Step 5** Angles in a triangle – special cases **Step 6** Angles in a triangle – missing angles **Step 7** Angles in quadrilaterals **Step 8** Angles in polygons **Step 9** Circles **Step 10** Draw shapes accurately **Step 11** Nets of 3-D shapes **Geometry (Position and direction)** **Step 1** The first quadrant **Step 2** Read and plot points in four quadrants **Step 3** Solve problems with coordinates **Step 4** Translations **Step 5** Reflections	

	by a 2-digit number **Step 8** Solve problems with multiplication **Step 9** Short division **Step 10** Division using factors **Step 11** Introduction to long division **Step 12** Long division with remainders **Step 13** Solve problems with division **Step 14** Solve multi-step problems **Step 15** Order of operations **Step 16** Mental calculations and estimation **Step 17** Reason from known facts	**Step 6** Fraction of an amount **Step 7** Fraction of an amount - find the whole **Converting units** **Step 1** Metric measures **Step 2** Convert metric measures **Step 3** Calculate with metric measures **Step 4** Miles and kilometres **Step 5** Imperial measures	**Step 5** Formulae **Step 6** Form equations **Step 7** Solve 1-step equations **Step 8** Solve 2-step equations **Step 9** Find pairs of values **Step 10** Solve problems with two unknowns **Decimals** **Step 1** Place value within 1 **Step 2** Place value – integers and decimals **Step 3** Round decimals **Step 4** Add and subtract decimals **Step 5** Multiply by 10, 100 and 1,000 **Step 6** Divide by 10, 100 and 1,000	**Step 1** Shapes – same area **Step 2** Area and perimeter **Step 3** Area of a triangle – counting squares **Step 4** Area of a right-angled triangle **Step 5** Area of any triangle **Step 6** Area of a parallelogram **Step 7** Volume - counting cubes **Step 8** Volume of a cuboid **Statistics** **Step 1** Line graphs **Step 2** Dual bar charts **Step 3** Read and interpret pie charts **Step 4** Pie charts with percentages **Step 5** Draw pie charts **Step 6** The mean		

			Step 7 Multiply decimals by integers **Step 8** Divide decimals by integers **Step 9** Multiply and divide decimals in context			