Giles Junior Mathematics SEND Curriculum Annual Overview

Autumn Term					
Scotland			Jamaica	New Zealand	
P3 – Year1/Reception	P2 – Year 2	P1 – Year 3	Year 4	P2 – Year 4	P1 - Year 5
Working within numbers 1-10	Working within numbers 1-20	Working within numbers 1-100	Working within numbers 1-1,000 (0.1)	Working within numbers 1-1,000 (0.1)	Working within numbers 1-10,000 (0.01)
Place Value Sort objects Count objects Count objects from a larger group Represent objects Recognise numbers as words Count on from any number 1 more Count backwards within 10 1 less Compare groups by matching Fewer, more, same Less than, greater than, equal to Compare numbers Order objects and numbers The number line	**Place Value** Numbers to 20 Count objects to 20 by making 10 Recognise tens and ones Use a Place Value Chart Partition numbers to 20 Write numbers to 20 in words Flexibly partition numbers to 20 Write numbers to 20 in expanded form 10s on the number line to 20 10s and 1s on the number line to 20 Estimate numbers on a number line Compare objects Compare numbers Order objects and number Count in 2s, 5s and 10s Count in 3s	**Place Value** Represent numbers to 100 Partition numbers to 100 Number line to 100 Hundreds Represent numbers to 1,000 Partition numbers to 1,000 Flexible partitioning of numbers to 1,000 Hundreds, tens and ones Find 1, 10 or 100 more or less Number line to 1,000 Estimate on a number line to 1,000 Compare numbers to 1,000 Order numbers to 1,000 Count in 50s	**Place Value** Represent numbers Order numbers Compare numbers Partition numbers Rounding numbers to 10 Rounding numbers to 100 Rounding numbers to 1000 Estimating on a number line **Addition and Subtraction** Securing addition and subtraction mental fluency Formal written addition and subtraction fluency	**Place Value** Represent numbers Order numbers Compare numbers Partition numbers Rounding numbers to 10 Rounding numbers to 100 Rounding numbers to 1000 Estimating on a number line **Addition and Subtraction** Securing addition and subtraction mental fluency Formal written addition and subtraction fluency	**Place Value** Place Value and Rounding of Large Numbers Interpret Negative Numbers Place Value of Numbers with up to Three Decimal Places Multiply and Divide by 10, 100 and 1,000 Properties of Number – Multiples, Factors and Common Factors Prime and Composite Numbers **Four Operations** Multiply and Divide Mentally Solve Problems Involving Knowledge of Key Facts Add and Subtract Using a Range of Strategies
Addition and Subtraction Introduce parts and wholes Part-whole model Write number sentences Fact families - addition facts Number bonds within 10 Systematic number bonds within 10 Number bonds to 10 Addition - add together Addition - add more Addition problems Find a part Subtraction - find a part Fact families - the eight facts	**Addition and Subtraction** Bonds to 10 Fact families - addition and subtraction bonds within 20 Related facts Bonds to 20 (tens) Add and subtract 1s Add by making 10 Add three 1-digit numbers Add to the next 10 Add across a 10 Subtract across 10 Subtract from a 10 Subtract a 1-digit number from a 2-digit number (across a 10) 10 more, 10 less	**Addition and Subtraction** Apply number bonds within 10 Add and subtract 1s Add and subtract 10s Add and subtract 100s Spot the pattern Add 1s across a 10 Add 10s across a 100 Subtract 1s across a 10 Subtract 10s across a 100 Make connections Add two numbers (no exchange) Subtract two numbers (no exchange) Add two numbers (across a 10) Add two numbers (across a 100)	**Multiplication and Division** Counting in multiples of 6, 7, 9, 25 and 1000 Multiplication and division facts (Times Tables) Factor pairs, integer scaling and correspondence problems Problem solving including Measures to apply place value, mental strategies and arithmetic laws Multiply and divide a one or two-digit number by 10 & 100	**Multiplication and Division** Counting in multiples of 6, 7, 9, 25 and 1000 Multiplication and division facts (Times Tables) Factor pairs, integer scaling and correspondence problems Problem solving including Measures to apply place value, mental strategies and arithmetic laws Multiply and divide a one or two-digit number by 10 & 100	**Four Operations** Add and Subtract Using Formal Written Methods Formal Written Method for Multiplication Formal Written Method of Short Division **Fractions, Decimals and Percentages** Equivalent Fractions Compare and Order Fractions Adding and Subtracting Fractions Multiply Fractions by Whole Numbers

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Subtraction - take away/cross out (How many left?) Subtraction - take away (How many left?) Subtraction on a number line Add or subtract 1 or 2	Add and subtract 10s Add two 2-digit numbers (not across a 10) Add two 2-digit numbers (across a 10) Subtract two 2-digit numbers (not across a 10) Subtract two 2-digit numbers (across a 10) Mixed addition and subtraction Compare number sentences Missing number problems	Subtract two numbers (across a 10) Subtract two numbers (across a 100) Add 2-digit and 3-digit numbers Subtract a 2-digit number from a 3-digit number Complements to 100 Estimate answers Inverse operations Make decisions			Fraction Problem Solving Percentages Problem Solving – Percentages Fractions, Decimals and Percentages Problem Solving

Spring Term					
Scotland			Jamaica	New Zealand	
P3 – Year1/Reception	P2 – Year 2	P1 – Year 3	Year 4	P2 – Year 4	P1 - Year 5
Working within numbers 1-20	Working within numbers 1-50	Working within numbers 1-100	Working within numbers up to 1,000 decimals to one dp (0.1)	Working within numbers up to 1,000 decimals to one dp (0.1)	Working within numbers up to 10,000 decimals up to two dp (0.001)
Geometry - Shape Recognise and name 3-D shapes Sort 3-D shapes Recognise and name 2-D shapes Sort 2-D shapes Patterns with 2-D and 3-D shapes **Place Value** Count within 20 Understand 10 Understand 11, 12 and 13 Understand 14, 15 and 16 Understand 17, 18 and 19 Understand 20 1 more and 1 less The number line to 20 Use a number line to 20 Estimate on a number line to 20 Compare numbers to 20 Order numbers to 20	**Geometry - Shape** Recognise 2-D and 3-D shapes Count sides and vertices on 2-D shapes Draw 2-D shapes Lines of symmetry on shapes Sort 2-D shapes Count faces, edges and vertices on 3-D shapes Sort 3-D shapes Make patterns with 2-D and 3-D shapes **Money** Count money – pence Count money - pounds (notes and coins) Count money - pounds & pence Choose notes and coins Make the same amount Compare amounts of money Calculate with money Make a pound	**Multiplication and Division** Multiplication - equal groups Use arrays Multiples of 2 Multiples of 5 and 10 Sharing and grouping Multiply by 3 Divide by 3 The 3 times-table Multiply by 4 Divide by 4 The 4 times-table Multiply by 8 Divide by 8 The 8 times-table The 2, 4 and 8 times-tables Multiples of 10 Related calculations Reasoning about multiplication	**Geometry** Perimeter Area Properties of Shape Symmetry **Place Value/Measurement** Decimal Numbers Calculating with decimals Measure – money Problem solving involving decimals to two decimal places	**Geometry** Perimeter Area Properties of Shape Symmetry **Place Value/Measurement** Decimal Numbers Calculating with decimals Measure – money Problem solving involving decimals to two decimal places	**Four Operations** Multiply and divide mentally Solve problems involving knowledge of key facts Add and subtract using a range of strategies Add and subtract using formal written methods Formal written method for multiplication Formal written method for short division **Measurement** Converting units of measure Area Volume and capacity Perimeter

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	Find change				
Addition and Subtraction Add by counting on within 20 Add ones using number bonds Find and make number bonds to 20 Doubles Near doubles Subtract ones using number bonds Subtraction - counting back Subtraction - finding the difference Related facts Missing number problems	**Multiplication and Division** Recognise equal groups Make equal groups Add equal groups Introduce the multiplication symbol Multiplication sentences Use arrays Make equal groups – grouping Make equal groups – sharing The 2 times-table Divide by 2 Doubling and halving Odd and even numbers The 10 times-table Divide by 10 The 5 times-table Divide by 5 The 5 and 10 times-tables	**Multiplication and Division** Multiply a 2-digit number by a 1-digit number - no exchange Multiply a 2-digit number by a 1-digit number - with exchange Link multiplication and division Divide a 2-digit number by a 1-digit number - no exchange Divide a 2-digit number by a 1-digit number - flexible partitioning Divide a 2-digit number by a 1-digit number - with remainders Scaling	**Fractions** Add & subtract fractions (same denominator) Finding fractions of quantities Fractions in the context of measure Equivalent fractions, ordering and comparing **Multiplication and Division** Multiply two and three-digit Numbers by a one-digit number Using a formal written layout Divide two and three-digit Numbers by a one-digit number Using a formal written layout **Measurement - Time** Read, write, calculate and convert time on analogue and digital 12 and 24 hour clocks	**Fractions** Add & subtract fractions (same denominator) Finding fractions of quantities Fractions in the context of measure Equivalent fractions, ordering and comparing **Multiplication and Division** Multiply two and three-digit Numbers by a one-digit number Using a formal written layout Divide two and three-digit Numbers by a one-digit number Using a formal written layout **Measurement - Time** Read, write, calculate and convert time on analogue and digital 12 and 24 hour clocks	**Geometry** 3-D Shapes from 2-D Representations Reflection and translation Perimeter Estimate, compare, measure and draw angles Identify unknown angles **Four Operations** Recapping of methods for all four operations Formal methods for division and multiplication Strategies for multiplication and division (mental and written)

Summer Term					
Scotland			Jamaica	New Zealand	
P3 – Year1/Reception	P2 – Year 2	P1 – Year 3	Year 4	P2 – Year 4	P1 - Year 5
Working within numbers 1-20	Working within numbers 1-50	Working within numbers 1-100	Working within numbers up to 1,000 decimals to one dp (0.1)	Working within numbers up to 1,000 decimals to one dp (0.1)	Working within numbers up to 10,000 decimals up to two dp (0.001)
Multiplication and Division Count in 2s Count in 10s Count in 5s Recognise equal groups Add equal groups Make arrays Make doubles Make equal groups - grouping Make equal groups – sharing **Fractions**	**Fractions** Introduction to parts and whole Equal and unequal parts Recognise and find a half Recognise and find a quarter Recognise and find a third Find the whole Unit fractions Non-unit fractions Recognise the equivalence of a half and two quarters Recognise three-quarters Find three-quarters	**Fractions** Understand the denominators of unit fractions Compare and order unit fractions Understand the numerators of non-unit fractions Understand the whole Compare and order non-unit fractions Fractions and scales Fractions on a number line	**Statistics** Interpret and present continuous and discrete data, solve problems incorporating measures **Place Value** Negative numbers – counting through zero and calculating in context	**Statistics** Interpret and present continuous and discrete data, solve problems incorporating measures **Place Value** Negative numbers – counting through zero and calculating in context	**Geometry** Distinguish between regular and irregular polygons Use properties of rectangles **Statistics** Reading timetables and calculating with time Solve comparison, sum and difference problems using information in a line graph

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Recognise a half of an object or a shape Find a half of an object or a shape Recognise a half of a quantity Find a half of a quantity Recognise a quarter of an object or a shape Find a quarter of an object or a shape Recognise a quarter of a quantity Find a quarter of a quantity	Count in fractions up to a whole	Count in fractions on a number line Equivalent fractions on a number line Equivalent fractions as bar models Add fractions Subtract fractions Partition the whole Unit fractions of a set of objects Non-unit fractions of a set of objects Reasoning with fractions of an amount			Interpreting and evaluating information presented in charts and tables
Measure – Length & Height Compare lengths and heights Measure length using objects Measure length in centimetres **Measure – Mass & Volume** Heavier and lighter Measure mass Compare mass Full and empty Compare volume Measure capacity Compare capacity **Measure – Money** Unitising Recognise coins Recognise notes Count in coins	**Measure – Length & Height** Measure in centimetres Measure in metres Compare lengths and heights Order lengths and heights Four operations with lengths and heights **Measure – Mass, Capacity and Temperature** Compare mass Measure in grams Measure in kilograms Four operations with mass Compare volume and capacity Measure in millilitres Measure in litres Four operations with volume and capacity Temperature	**Measure – Length & Perimeter** Measure in metres and centimetres Measure in millimetres Measure in centimetres and millimetres Metres, centimetres and millimetres Equivalent lengths (metres and centimetres) Equivalent lengths (centimetres and millimetres) Compare lengths Add lengths Subtract lengths What is perimeter? Measure perimeter Calculate perimeter **Measure – Mass, Capacity** Use scales Measure mass in grams Measure mass in kilograms and grams Equivalent masses (kilograms and grams) Compare mass Add and subtract mass	**Geometry** Properties of triangles Coordinates in the first quadrant Translations, position and direction Incorporating angles and plotting points of a shape **Measurement** Conversion of Units Compare, estimate and calculate Discrete & continuous data (time graphs), including application of scales & division	**Geometry** Properties of triangles Coordinates in the first quadrant Translations, position and direction Incorporating angles and plotting points of a shape **Measurement** Conversion of Units Compare, estimate and calculate Discrete & continuous data (time graphs), including application of scales & division	**Four Operations Problem Solving** **Fractions, Decimals and Percentages with Measurement** Solving problems involving Scaling by simple fractions and rates Conversion of imperial and metric units of measure Fractions, decimals and percentages problem solving

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		Measure capacity and volume in millilitres Measure capacity and volume in litres and millilitres Equivalent capacities and volumes (litres and millilitres) Compare capacity and volume Add and subtract capacity and volume			