Giles Junior Mathematics Curriculum Annual Overview

Autumn Term			
Year 3	**Year 4**	**Year 5**	**Year 6**
Working within numbers 1-100	Working within numbers 1-1,000 (0.1)	Working within numbers 1-10,000 (0.01)	Working within numbers 1-1,000,000 (0.001)
Place Value and Regrouping Counting On and Back in Ones, Tens and Hundreds	Place Value – Order and Compare Numbers Beyond 1000 Rounding, Estimation and Magnitude	Place Value and Rounding of Large Numbers Interpret Negative Numbers	Place Value Multiply and Divide by 10, 100 and 1,000
Estimation, Magnitude and Rounding Measures – Comparison, Estimation and Magnitude	Securing Addition and Subtraction Mental Fluency	Place Value of Numbers with up to Three Decimal Places	Choosing Effective Mental Calculation Strategies
Mental Fluency – Addition Mental Fluency – Subtraction Fact Families and Applying the Inverse	Securing Formal Written Addition and Subtraction Fluency	Multiply and Divide by 10, 100 and 1,000 Properties of Number – Multiples, Factors and Common Factors Prime and Composite Numbers	Problem Solving with Four Operations Application of Factors, Multiples and Primes
Written Addition	Counting in Multiples of 6, 7, 9, 25 and 1000 Multiplication and Division Facts (Times Tables)	Multiply and Divide Mentally Solve Problems Involving Knowledge of Key Facts	Formal Written Method of Multiplication
Written Subtraction	Factor Pairs, Integer Scaling and Correspondence Problems	Add and Subtract Using a Range of Strategies	Formal Written Method of Short Division
Problem Solving – Worded Problems	Problem Solving Including Measures to Apply Place Value, Mental Strategies and Arithmetic Laws	Add and Subtract Using Formal Written Methods	Formal Written Method for Long Division
Statistics – Interpreting Bar Charts and Tables	Multiply and Divide a One or Two-digit Number by 10 and 100	Formal Written Method for Multiplication	Equivalent Fractions

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	Measure – Conversion of Units Measures – Compare, Estimate and Calculate		Comparing and Ordering Fractions Adding and Subtracting Fractions
Angles, Right Angles and Estimation Perpendicular and Parallel Lines, Vertical and Horizontal Lines	Discrete and Continuous Data (Time Graphs), Including Application of Scales and Division Perimeter	Formal Written Method of Short Division Equivalent Fractions Compare and Order Fractions Adding and Subtracting Fractions	Fraction and Decimal Equivalents Fractions, Decimals and Percentages Calculating Percentages
2-D Shape – Properties and Drawing	Securing Addition and Subtraction Mental Fluency		Multiplying Fractions Dividing Fractions Fraction Problem Solving
Perimeter Including Problem Solving Using Written and Mental Methods			

Spring Term			
Year 3	**Year 4**	**Year 5**	**Year 6**
Working within numbers up to 100	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)	Working within numbers up to 1,000,000 decimals up to three dp (0.001)
Multiplication – 3, 4 and 8 Times Tables including Counting Division – 1, 2, 3, 5, 4 and 8 Times Tables	Properties of Shape Symmetry	Problem Solving – All Four Operations	Order of Operations and Algebra

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Multiplication – Strategy, Associative and Distributive Laws			
Statistics – Pictograms and Scaled Bar Charts	Decimal Numbers Calculating with Decimals	Multiply Fractions by Whole Numbers Fraction Problem Solving	Properties of Shape
Multiplication and Division Worded Problems	Measure – Money Problem Solving involving decimals to two decimal Places	Measure – Converting Units of Measure	Exploring Relationships Between Perimeter and Area
Fractions – Finding Fractions of Discrete and Continuous Quantities	Add and Subtract Fractions with the Same Denominator Finding Fractions of Quantities Fractions in the Context of Measure	Area Volume and Capacity	Area of Parallelograms and Triangles
Ordering and Comparing Fractions Adding and Subtracting Fractions with the Same Denominators Fractions – Problem Solving with Unit and Non-Unit Fractions	Equivalent Fractions, Ordering and Comparing	Percentages Problem Solving – Percentages	Recognise and Find Angles Reflection and Translation
Multiplication – Multiplying Multiples of Ten Multiplication – Formal Written Multiplication	Multiply Two and Three-digit Numbers by a One-digit Number Using a Formal Written Layout	3-D Shapes from 2-D Representations Reflection and Translation	Ratio and Proportion
Multiplication – 3, 4 and 8 Times Tables including Counting	Divide Two and Three-digit Numbers by a One-digit	Perimeter	Volume Measures

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	Number Using a Formal Written Layout		
Division – 1, 2, 3, 5, 4 and 8 Times Tables Multiplication – Strategy, Associative and Distributive Laws	Properties of Shape Symmetry	Estimate, Compare, Measure and Draw Angles Identify Unknown Angles	Statistics – Interpret Line Graphs and Pie Charts
		Problem Solving – All Four Operations	Algebra and Sequences

Summer Term			
Year 3	**Year 4**	**Year 5**	**Year 6**
Working within numbers up to 100	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)	Working within numbers up to 1,000,000 decimals up to three dp (0.001)
Division Problem Solving – Sharing and Grouping	Time – Read, Write Calculate and Convert Time on Analogue and Digital 12- and 24-Hour Clocks	Formal Methods for Division and Multiplication in Increasingly Complex Problems Strategies for Multiplication and Division (Mental and Written)	Statistics – Calculate and Interpret Mean Average Application of Previous Years' Learning
Division – Two and Three-Digit Numbers by One-Digit Numbers including Halving	Statistics – Interpret and Present Continuous and Discrete Data, Solve Problems incorporating Measures	Solving Problems involving Scaling by Simple Fractions and Rates	Application of Known Facts and Calculation Strategies
Multiplication, Division and Fractions – Scaling and Correspondence Problems	Roman Numerals to 100 and Zero Negative Numbers – Counting through Zero and Calculating in Context	Conversion of Imperial and Metric Units of Measure	Constructing Pie Charts

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Division – Long Division	Geometry – Angles Properties of Triangles	Fractions, Decimals and Percentages Problem Solving	Statistical Representations
Time – Hours, Minutes, Seconds, Days, Weeks, Months, Years Time – Telling the Time (Analogue and Digital) and Estimation Time – Duration	Geometry – Coordinates in the First Quadrant and Translations Position and Direction, incorporating Angles and Plotting Points of a Shape	Reading Timetables and Calculating with Time	Further Algebra
Securing the Four Operations with Whole Number including Problem Solving	Multiplication and Division Review	Solve Problems involving the Four Operations	Financial Maths and Enterprise
Place Value and Decimals – Ten Times Greater and Ten Times Smaller Place Value and Decimals – Regrouping Place Value and Decimals – Estimation, Comparing and Rounding	Area	Distinguish between Regular and Irregular Polygons Use Properties of Rectangles	Maths Preparation for KS3
Measures – Measuring and Problem Solving	Fractions Review	Statistics – Solve Comparison, Sum and Difference Problems using Information in a Line Graph	
3-D Shape – Building and Identifying Properties	Application and Problem Solving – Developing Operation Sense	Statistics – Interpreting and Evaluating Information Presented in Charts and Tables	
		Roman Numerals	