Year 5 Maths Overview

	Wk 1	Wk 2	Wk 3	Wk 4	Wk 5	Wk 6	Wk 7	Wk 8	Wk 9	Wk 10	Wk 11	Wk 12
Autumn	Number: Place Value Number: Negative numbers				Number: Addition and Subtraction			Number: Multiplication & Division				
Spring	Number: Fractions							Number: Decimals and Percentages				
Summer	Measurement: Perimeter & area				Measurement: Volume		Measurement: Converting units	Geometry: Shape Geometry: Position and Direction				Statistics

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	Wk 1	Wk 2	Wk 3	Wk 4	Wk 5	Wk 6	Wk 7	Wk 8	Wk 9	Wk 10	Wk 11	Wk 12
Autumn	**Place Value** Represent, read, write and identify numbers up to 1,000,000 Partitioning numbers Counting in powers of 10 Finding 10, 100, 1,000 and 10,000 more or less Compare and order numbers Number lines Rounding to the nearest 10, 100, 1,000, 10,000 and 100,000 Unit 6 Interpret numbers greater and less than 0 Read and write negative numbers Relate position of negative numbers to 0 Compare and order negative numbers Number lines Interpret negative numbers in context Calculate intervals Roman numerals to 1,000 (inc. years) RPS - Solve number practical problems that involve all of the above, apply to context/measurement				**Addition and Subtraction** Mental strategies Recap column addition Add numbers with more than 4 digits Subtract numbers with more than 4 digits Checking strategies (rounding, inverse) RPS – multi-step problems in context, solve problems involving all 4 operations and a combination of these, including understanding of equals sign		**Multiplication and Division** Unit 17 – using common factors for multiplication Unit 16 – square and prime numbers and cube numbers Multiply and divide by 10, 100 and 1,000 (not resulting in decimals) (unit 13 to support) Multiply 4-digit numbers by 1 or 2-digit numbers (unit 7 and 8 to support) Divide 4-digit numbers by a 1-digit number (unit 9 to support) **Year 4** unit 24 – remainders (inc. as fractions, decimals or rounding) RPS – solve problems involving multiplication and division, including using their knowledge of factors, multiples, squares and cubes, solve problems involving all 4 operations and a combination of these, including understanding of equals sign, solve problems involving multiplication and division including scaling by simple fractions/rates			

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Spring	**Fractions** Equivalent fractions Converting between improper fractions and mixed numbers Counting in fractions – recognising and describing sequences Compare and order fractions (inc. denominators which are multiples) Add and subtract fractions (inc. denominators which are multiples) Add and subtract to a mixed number Unit 18 – multiply a fraction by a whole number Unit 19 – multiply mixed numbers by whole numbers Unit 20 – find unit and non-unit factions of whole numbers (unit 21 to support) RPS – practice calculating through a variety of increasingly complex problems, applying to context (measurement/operators/quantities), solve problems involving multiplication and division including scaling by simple fractions/rates		**Decimals and Percentages** (use unit 1 and 3 to recap as necessary) Thousandths as fractions and decimals Fraction and decimal equivalents Counting in decimals – recognising and describing sequences Order and compare decimals up to 3dp Decimal number lines Rounding decimals with 2dp to nearest whole and 1dp Complements to 1 Unit 2 - Add and subtract decimals Multiply and divide by 10, 100 and 1,000 (unit 13 to support) Understand percentages Equivalent fractions, decimals and percentages Finding percentages/fractions of amounts (unit 21 to support) RPS – solve problems involving decimals up to 3dp, requiring knowledge of percentage/decimal/fraction equivalents, applying to context			
Summer	**Measurement - Perimeter & area** Measure and calculate perimeter of rectangles Measure and calculate the perimeter of composite rectilinear shapes Measure an calculate the perimeter of polygons Calculating missing lengths using perimeter Unit 10 Recap of area by counting squares Making shapes with same area Comparing area Unit 11 Measure area Calculate area of rectangles Comparing area of rectangles Calculate area of composite rectilinear shapes Calculating missing lengths using area Estimate area RPS - Use all four operations to solve problems involving measure using decimal notation, including scaling.	**Measurement – Volume** Understanding volume and cubic centimetres Compare volume Estimate volume and capacity (unit 14 to support) RPS - Use all four operations to solve problems involving measure using decimal notation, including scaling.	**Measurement - Converting units** Unit 22 Convert from larger to smaller Convert from smaller to larger Convert between fraction and decimal Use known facts for mental conversions Understand conversions between metric and imperial units Converting between units of time Converting between units of money (units 4, 5, 12 and 13 to support) RPS – solve problems involving converting between units	**Geometry - Shape** Understand and measure degrees Classify angles Estimate angles Measure angles Draw lines and angles accurately Calculate angles around a point Calculate angles on a straight line Calculate angles in rectangles (unit 23 to support) Identify regular and irregular polygons Identify 3D shapes from 2D representations **Geometry - Position and Direction** Read and plot coordinates Translation with coordinates Reflection in horizontal and vertical lines	**Statistics** Read, interpret and draw line graphs Read, interpret and draw tables (inc. two-way tables) Read and interpret timetables RPS - Solve comparison, sum and difference problems using line graphs

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