Year 6 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: Addition, Subtraction, Multiplication and Division					Number: Fractions				Number: Fractions, decimals & percentages
Spring	Number: Fractions, decimals & percentages		Geometry: Shape, Position and Direction			Measurement: Area, perimeter and volume		Number: Ratio		Measurement: Converting Units		Number: Algebra
Summer	Statistics		SATS preparation			Consolidation Investigations and Preparations for KS3						

Year 6 Maths Overview WRH Oak National Academy Add in RPS mentioned in the NC

	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** (use unit 4 to recap as necessary) Unit 5 Powers of 10 and their multiples Composition of 1 and 10 million Represent, read and write numbers up to 10 million Order and compare numbers up to 10 million (unit 6 to support) Number line to 10 million Round whole numbers to required degree of accuracy Use negative numbers in context (unit 7 to support) Calculate intervals using negative numbers RPS – solve number and practical problems that involve all of the above	**Addition, Subtraction, Multiplication and Division** Add and subtract using column addition Common factors and multiples Rules of divisibility Prime, square and cube numbers Unit 10 Multiply up to 4-digits by 2-digit number Multiply efficiently using associative law Division using factors Divide up to 4-digits by 2-digit number Division with remainders – interpreting remainders in context Unit 20 Use multiplication in addition and subtraction to solve calculations efficiently Use division with addition and subtraction to solve calculations efficiently Distributive law BIDMAS Methods of checking (estimation, inverse) *Increasing efficiency of mental calculation using units 1, 2, 3 and 9 and knowledge of times tables/related calculations* RPS – solve multi-step problems in contexts, deciding order of operations and methods, solve problems which require answers to be rounded to specified degrees of accuracy	**Fractions** Equivalent fractions Simplifying fractions (unit 12 to support) Compare and order using denominator (unit 13 to support) Compare and order using numerator (unit 13 to support) Unit 12 Add and subtract related fractions Add and subtract non-related fractions Add and subtract mixed numbers Unit 14 Multiply two unit fractions Multiply two non-unit fractions Divide a unit fraction by a whole number Divide a non-unit fraction by a whole number Divide efficiently Fractions of amounts RPS - solve problems which require answers to be rounded to specified degrees of accuracy	**Fractions, decimals and percentages** (see spring)

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Spring	**Fractions, decimals and percentages** Place value within 1 Rounding decimals Add and subtract decimals Multiply and divide by powers of 10 Multiple and divide decimals by integers Multiple and divide decimals in context Decimal and fraction equivalents Fractions as division Understand percentages Fractions to percentages Equivalent fractions, decimals and percentages Order and compare fractions, decimals and percentages Percentages of amounts Missing values with percentages (unit 15 to support) RPS - solve problems which require answers to be rounded to specified degrees of accuracy	**Shape, Position and Direction** Measure and classify angles Calculate angles in shapes using known facts Circles – radius, diameter and circumfrence Unit 8 Sketch and identify shapes Draw shapes accurately Explore nets Recap the first quadrant Read and plot points on all 4 quadrants Translations Reflections (unit 11 to support)	**Area, perimeter and volume** Unit 8 Decomposing shapes to calculate area Explore link between perimeter and area Unit 11 Explore link between perimeter and area Calculate area of shapes Calculate, estimate and compare volume of cubes and cuboids	**Ratio** Understand and represent ratio Link between ratio and fractions Calculate missing values Understand and use scale factors (maps and drawings) Apply ratio to shapes Apply ratio to proportion (unit 17 to support) RPS – solve problems involving similar shapes where the scale factor is known or can be found, solve problems involving unequal sharing and grouping using knowledge of fractions and multiples	**Measuring – Converting units** Using and convert and calculate with metric measures Use and convert between imperial measures Miles and kilometres RPS – solve problems involving the calculation and conversion of units of measure, using decimal notation where appropriate	**Algebra** Function machines Form expressions Substitution Use formulae Form equations Solve equations Generate and describe linear number sequences Find pairs of values Solve problems with 2 unknowns (unit 18 and 19 to support)

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Summer	**Statistics** Dual bar charts Unit 16 Interpret pie charts Construct pie charts Interpret line graphs Construct line graphs Unit 21 Relationship between mean and sharing Calculate mean Explore how mean changes Use mean to make comparisons Explain why and when the mean is useful	SATS preparation	Consolidation Investigations and Preparations for KS3

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