Year 5
Maths Coverage 2023-2024

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7
Autumn 1	**Place value** • Representing numbers to 100000 using resources and in different ways (including with money, length) ▪ Begin using the positional and multiplicative language to understand the value of the whole number ▪ Introduce thousandths ▪ Conversions between decimals and whole numbers ▪ Multiplying and dividing by 1000 (including tenths and hundredths and thousandths) ▪ Generating different names for numbers – different ways of representing the number ▪ Comparing numbers up to 1000000 (including with money, length and mass) including decimals ▪ Ordering numbers up to 100000 (including with money, length, capacity and volume) including decimals ▪ Rounding numbers to the nearest 1000 and tenths within 10000 including tenths, hundredths (decimal places) ▪ Percentages re-cap for hundredths. Decimal relationships for percentages.						
Autumn 2	**Addition and subtraction** ▪ Addition – add together (including with money) (aggregation) acting out simple scenarios of the two structures. Numbers to 1000 ▪ Addition – add more (including with money and length) (augmentation – 6 apples and given 4 more. How many now?) Numbers to 1000 ▪ Subtraction – take away Numbers to 1000 ▪ Subtraction – difference Numbers to 1000 ▪ Fact families – commutative and inverse ▪ Distributive – sequencing e.g. 34 + 14 = 34 + 10 + 3 ▪ Associative properties – adding 3 single-digit numbers. Moving numbers around to make them easier to solve. ▪ Compensation property – 24 + 19 = 24 + 20 + 1 ▪ Addition and subtraction to include money – decimal places (decimals coverage) **MENTAL STRATEGIES** ▪ Number pairs for all numbers to 1, 10 and 100 ▪ Counting on and back ▪ Doubles and near doubles ▪ Adding and subtracting and adjusting ▪ Using patterns of similar calculations ▪ Bridging through 10 ▪ Sequencing ▪ Making subtraction easier – same difference, different numbers ▪ Using known number facts ▪ Relationships between operations						

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Spring 1	**Multiplication and division** • Using known facts ▪ 2-digit x 2-digit ▪ Grid method, expanded and short written methods modelled alongside each other ▪ 4-digit divided by 1-digit using grouping ▪ Written division calculations including remainders ▪ Scaling and introducing ratio ▪ Correspondence problems ▪ Multiples and factors, including factor pairs and common factors ▪ Prime numbers, prime factors and composite numbers ▪ Prime numbers up to 100 ▪ Square numbers and cube numbers **MENTAL STRATEGIES** ▪ know multiplication and division facts for 1, 5, 10, 2, 4, 8, 3, 6, 12 linking between 2, 4, 8 and 3, 6, 12 times tables ▪ dividing by 4 by halving and halving again ▪ Multiplying by 4 by doubling and doubling again ▪ Multiplying by 5 by multiplying by 10 and halving ▪ Dividing by 5 by dividing by 10 and doubling ▪ Partitioning ▪ Using known facts ▪ Associativity – moving a multiplication around to look for easier facts ▪ Distributivity – partitioning to make x easier 8x7 = (8x5)+(8x2)	
Spring 2	**Fractions, decimals and percentages** ▪ Identify parts and wholes – non-fractional ▪ Identify parts and wholes – fractional ▪ Addition and subtraction of fractions ▪ Commutativity and inverse – family of facts for the fractions ▪ Representing fractions in different ways ▪ Equivalent fractions ▪ Comparing fractions ▪ Fractions of shape ▪ Improper fractions and mixed numbers ▪ Addition and subtraction of improper and mixed numbers ▪ Finding common denominators ▪ Multiplying fractions by whole numbers (repeated addition)	

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Summer 1	**Statistics** Solve comparison, sum and difference problems using information in a line graph Complete, read and interpret information in tables, including timetables	**Perimeter and area** ▪ Measure and calculate perimeter of composite rectilinear shapes (cm and m) ▪ Calculate and compare the area of rectangles (cm2 and m2)	**Shape** • Identify 3D shapes from 2D representations ▪ Angles – knowing they're measured in degrees ▪ Types of angles ▪ Using a protractor to measure ▪ Missing angles from properties ▪ Co-ordinate grids in the first quadrant to reflect and translate shapes ▪ Regular and irregular polygons ▪ Nets for different shapes	
Summer 2	**Position and direction** Describe and represent the position of a shape following a reflection or translation	**Converting units** Understand and use approximate equivalence between metric and imperial	Consolidation and pre-teaching for Year 6	