Year 5 Maths Yearly Overview

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Week 1	**Place Value** ☐read, write, order and compare numbers to at least 1 000 000 and determine the value of each digit ☐count forwards or backwards in steps of powers of 10 for any given number up to 1 000 000	**Number** ☐multiply numbers up to 4 digits by a one- or two-digit number using a formal written method, including long multiplication for two-digit numbers ☐solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign ☐solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates.	**Fractions** ☐compare and order fractions whose denominators are all multiples of the same number	**Percentage** ☐recognise the percent symbol (%) and understand that per cent relates to 'number of parts per hundred', and write percentages as a fraction with denominator 100, and as a decimal	**Stats** ☐solve comparison, sum and difference problems using information presented in a line graph ☐complete, read and interpret information in tables, including timetables.	**Measurement: Converting Units** ☐convert between different units of metric measure (for example, kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre) ☐understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints
Week 2	**Place Value** ☐round any number up to 1 000 000 to the nearest 10, 100, 1000, 10 000 and 100 000 ☐solve number problems and practical problems that involve all of the above	**Number** ☐multiply and divide numbers mentally drawing upon known facts ☐multiply and divide whole numbers and those involving decimals by 10, 100 and 1000	**Fractions** ☐add and subtract fractions with the same denominator and denominators that are multiples of the same number	**Percentage** ☐recognise the percent symbol (%) and understand that per cent relates to 'number of parts per hundred', and write percentages as a fraction with denominator 100, and as a decimal	**Geometry: Angles** ☐know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles ☐draw given angles, and measure them in degrees (o)	**Measurement: Converting Units** ☐use all four operations to solve problems involving measure [for example, length, mass, volume, money] using decimal notation, including scaling.
Week 3	**Place Value** ☐interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero ☐solve number problems and practical problems that involve all of the above ☐read Roman numerals to 1000 (M) and recognise years written in Roman numerals	**Number** ☐divide numbers up to 4 digits by a one-digit number using the formal written method of short division and interpret remainders appropriately for the context	**Fractions** ☐recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements > 1 as a mixed number [for example, + = = 1]	**Decimal Numbers** ☐read, write, order and compare numbers with up to three decimal places	**Geometry: Angles** ☐identify: ☐angles at a point and one whole turn (total 360o) ☐angles at a point on a straight line and a turn (total 180o) ☐other multiples of 90o ☐use the properties of rectangles to deduce related facts and find missing lengths and angles	**Measurement: Area & Perimeter** ☐measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres ☐calculate and compare the area of rectangles(including squares), and including using standard units, square centimetres (cm2) and square metres (m2) and estimate the area of irregular shapes
Week 4	**Number** ☐add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction) ☐add and subtract numbers mentally with increasingly large numbers	**Number** ☐solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign ☐solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates.	**Fractions** ☐multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams	**Decimal Numbers** ☐round decimals with two decimal places to the nearest whole number and to one decimal place	**Geometry: Shapes** ☐identify, describe and represent the position of a shape following a reflection or translation, using the appropriate language, and know that the shape has not changed. ☐identify 3-D shapes, including cubes and other cuboids, from 2-D representations ☐distinguish between regular and irregular polygons based on reasoning about equal sides and angles.	**Measurement: Time** ☐solve problems involving converting between units of time
Week 5	**Number** ☐add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction) ☐add and subtract numbers mentally with increasingly large numbers	**Number** ☐solve problems involving multiplication and division including using their knowledge of factors and multiples, squares and cubes ☐recognise and use square numbers and cube numbers, and the notation for squared (2) and cubed (3)	**Fractions** ☐identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths ☐read and write decimal numbers as fractions [for example, 0.71 =] ☐recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents	**Decimal Numbers** ☐solve problems involving number up to three decimal places	**Geometry: Shapes** ☐identify, describe and represent the position of a shape following a reflection or translation, using the appropriate language, and know that the shape has not changed.	**Measurement: Time** ☐solve problems involving converting between units of time

			□solve problems which require knowing percentage and decimal equivalents of , , , , and those fractions with a denominator of a multiple of 10 or 25.			
Week 6	**Number** □solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why. □use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy	**Number** □identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers □know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers □establish whether a number up to 100 is prime and recall prime numbers up to 19	**Percentage** □recognise the percent symbol (%) and understand that per cent relates to 'number of parts per hundred', and write percentages as a fraction with denominator 100, and as a decimal	**Stats** □solve comparison, sum and difference problems using information presented in a line graph □complete, read and interpret information in tables, including timetables.	**Measurement: Volume** □estimate volume [for example, using 1 cm3 blocks to build cuboids (including cubes)] and capacity [for example, using water]	