



## Maths Curriculum Overview - Year 5

	Unit	Details
Autumn One	<b>Place Value, Addition, Subtraction, Multiplication and Division</b>	Pupils in Year 5 will start the academic year by looking at numbers up to 1,000,000, they will represent, partition and use number lines to support them. Time will also be spent comparing and ordering numbers to 1,000,000. They will then round to the nearest 10, 100 and 1000, with a focus on rounding within 100,000 and 1,000,000. After place value, pupils will focus on addition and subtraction. They will use their previous learning to help them focus on mental strategies. Pupils will add and subtract whole numbers with more than four digits, round to check their answers and learn how to apply their knowledge to multi-step addition and subtraction problems. Towards the end of the term, pupils will start looking at multiples, common multiples, factors and common factors.
Autumn Two	<b>Multiplication, Division and Fractions</b>	At the beginning of the half term pupils will continue their learning of multiplication and division. Time will be spent learning about prime, square and cube numbers. They will learn how to multiply and divide by 10, 100 and 1000. Next, pupils will focus on fractions. They will learn to find fractions equivalent to a unit and non-unit fraction, as well as, convert improper fractions to mixed numbers and mixed numbers to improper fractions. Pupils will compare and order fractions less than 1 and greater than 1, which will lead them into learning how to add fractions within 1 and that are greater than 1. Towards the end of the term, pupils will learn how to add and subtract mixed numbers.
Spring One	<b>Multiplication, Division, Fractions, Decimals and Percentages</b>	At the start of the spring term, pupils will revisit multiplication and division. They will learn how to do long multiplication by multiplying a 2-digit number by a 2-digit number, this will then progress being able to multiply a 4-digit number by a 2-digit number. Pupils will learn about short division and how to divide a 4-digit number by a 1-digit number. Towards the end of the unit, time will be spent solving multiplication and division problems. After revisiting multiplication and division, pupils will revisit fractions. They will learn how to multiply a unit fraction, non-unit fraction and a mixed number by an integer. Time will be spent learning how to calculate a fraction of a quantity and working out a fraction of an amount. Towards the end of the half term pupils will start learning about decimals. They will spend lessons looking at equivalent fractions and decimals (tenths and hundredths). After that, they will learn about thousandths as fractions and decimals, as well as, on a place value chart.
Spring Two	<b>Decimals, Percentages, Perimeter, Area and Statistics</b>	At the beginning of this half term, pupils will continue their learning about decimals and percentages. They will order and compare any decimals up to 3 decimal places, round to the nearest whole number and round to 1 decimal place. Pupils will be able to understand percentages as fractions and percentages as decimals. Next, pupils will spend a short time learning about the perimeter of rectangles, rectilinear shapes and polygons. After that, they will learn about area of rectangles and compound shapes. By the end of the unit pupils will be able to estimate the area of a shape accurately. Finally, at the end of the term pupils will learn about statistics. They will draw, read and interpret line graphs. As well as, being able to read and interpret tables and timetables.
Summer One	<b>Shape, Position, Direction and Decimals</b>	At the start of the summer term, pupils will learn about shape. They will learn how to measure angles up to 180 and draw lines and angles accurately. Pupils will calculate angles around a point and on a straight line. Time will be spent looking at regular and irregular polygons and 3-D shapes. After shape pupils will start their new unit, position and direction. They will learn how to read and plot coordinates, problem solve with coordinates, translate shapes/objects, identify lines of symmetry and learn about reflection. Towards the end of the half term pupils will revisit decimals. They will learn how to add and subtract decimals with the same number of decimal places.
Summer Two	<b>Decimals, Negative numbers, Converting units and Volume</b>	At the beginning of the final half term, pupils will continue their learning of decimals. They will add and subtract decimals with different numbers of decimal places. They will learn how to multiply and divide decimals by 10, 100 and 1000. Pupils will then learn about negative numbers. They will count through zero in 1s, different multiples and will compare and order negative numbers. Next, pupils will convert units. They will learn to convert kilograms, kilometres, millimetres, millilitres and units of length. Time will be spent converting between metric and imperial units. Finally, towards the end of the summer term pupils focus on volume. They will learn about cubic centimetres, how to compare volume and estimate volume and capacity.