Maths Curriculum Overview - Year 6

	Unit	Details
Autumn One	**Place Value, Addition, Subtraction, Multiplication and Division**	Pupils in Year 6 will start the academic year by looking at numbers up to 10,000,000 and learn how to read and write them correctly. Time will be spent comparing and ordering integers, rounding integers and learning about negative numbers. After place value, pupils will use their knowledge of addition and subtraction to recap adding and subtracting integers. Next,time will be spent learning about multiplication and division. Pupils will start by learning about common factors and multiples, prime numbers to 100 and then focus on square and cube numbers. Pupils will revisit short division and then be introduced to long division with remainders. Pupils will then apply their knowledge to help them solve multi-step problems and reason from known facts.
Autumn Two	**Fractions and Converting units**	At the beginning of the half term, pupils will focus on fractions. They will start off by learning about equivalent fractions on a number line and how to simplify them. Pupils will then compare and order fractions, add and subtract two fractions, add and subtract mixed numbers and spend time answering multi-step problems. Next, pupils will learn how to multiply and divide fractions by fractions and by an integer. Time will be spent learning about fractions of an amount. Towards the end of the term pupils will convert metric measures, focus on miles and kilometres and look at imperial measures.
Spring One	**Ratio, Algebra and Decimals**	At the start of the spring term pupils will learn about ratio. They will learn about the link of ratio and fractions, scale drawing and use scale factors. Pupils will then answer ratio and proportion problems. Real life contexts such as recipes will also be introduced. Next, pupils will learn about algebra. They will be introduced using function machines and how to form expressions. Time will be spent learning about substitution, formulae and how to form equations. Pupils will then demonstrate their learning by solving equations and problems. Towards the end of the half term pupils will focus on decimals. They will recap the place value of decimals and then move onto adding and subtracting decimals. After that, they will learn how to multiply and divide decimals by 10, 100 and 1000 and multiply and divide decimals by integers.
Spring Two	**Fractions, Decimals, Percentages, Area, Perimeter, Volume and Statistics**	At the beginning of this half term, pupils will use their knowledge of fractions,decimals and percentages to find decimal and fraction equivalents. Time will be spent focusing on understanding percentages and then converting fractions to percentages. Pupils will order fractions, decimals and percentages and then find percentages of an amount. Next, pupils will learn how to find the area of any type of triangle and parallelogram. Pupils will then learn how to find the volume of a cuboid. Towards the end of the half term pupils will look at line graphs, dual bar charts and pie charts. Pupils will answer questions relating to percentages and pie charts and will then draw pie charts. Finally, pupils will learn how to calculate the mean.
Summer One	**Shape, Position and Direction**	At the start of the Summer term, pupils will learn about shape. They will learn how to measure, classify and calculate angles. Time will be spent learning about angles in a triangle and they will learn how to calculate missing angles. After that, pupils will look at angles in quadrilaterals and polygons. Next, pupils will focus on circles and learn how to draw shapes accurately. After shape pupils will start their new unit, position and direction. They will learn about the first quadrant, read and plot points in four quadrants and solve problems with coordinates. Time will be spent learning about translation and reflections.
Summer Two	**Themed projects, consolidation and problem solving**	In the final term of Year 6 pupils will focus on themed projects, consolidate previous learning and build their problem solving skills further, preparing them for Maths into Year 7 and beyond.