



Maths Curriculum Overview - Year 7 Foundation

	Unit	Details
Autumn One	Number Algebra: Sequences	We start this year by linking arithmetic from Year 6 to some future learning by covering some important 'number sense' concepts. Pupils will then study sequences given in diagram, graph and tabular forms and describe and continue a sequence given diagrammatically.
Autumn Two	Place value and ordering integers and decimals Fraction, decimal and percentage equivalence	We start this half term building on previous understanding of place value by rounding to decimal places and significant figures and writing numbers using standard index form. Pupils will then learn to convert between fractions, decimals and percentages using mental strategies and calculators.
Spring One	Solving problems with addition and subtraction	We will first extend last half term's learning of fraction, decimal and percentage equivalence, before building on prior number work by exploring strategies for addition and subtraction, including solving problems involving finance, tables, timetables, frequency trees, bar charts and line charts.
Spring Two	Solving problems with multiplication and division Fractions and percentages of amounts	Pupils will use multiplication knowledge to understand and use factors and multiples and multiply and divide integers and decimals by powers of 10. They will develop their use order of operations and solve problems involving area and the mean. They will then use these skills to find a fraction or percentage of a given amount.
Summer One	Operations and equations with directed number	Pupils will spend time this half term learning to add, subtract, multiply and divide directed numbers, before using these skills to evaluate algebraic expressions and solve two-step equations with directed numbers.
Summer Two	Constructing. Measuring and using geometric notation Representing data	Pupils will then spend time classifying angles, measuring and drawing angles and polygons and recognising types of triangles and quadrilaterals. They will then construct triangles using SSS, SAS and ASA and draw and interpret pie charts. Pupils will then spend time representing data with scatter graphs and interpreting lines of best fit before reading and interpreting grouped frequency tables.