



Key Stage 3 September 2024-July 2025

Students continue to meet the National Curriculum by following the White Rose Maths Scheme for their year group. The content being taught at each stage is progressively more difficult with the same units, but to different depth, being taught at the same time. Progress is fluid with progression maps of each key skill available to help the class teacher to consolidate and extend during lessons as needed. Exam and test results along with pupils progress is constantly analysed, resulting in the curriculum being reviewed and adapted annually

Maths	Building Mathematical Skills			'Core' knowledge	'Hinterland' knowledge
	What new knowledge do we introduce?				
	Year 7	Year 8	Year 9		
Autumn 1 <i>September - October</i>	Sequences Understand & use algebra Equality & equivalence Area & perimeter	Ratio & scale Multiplicative change Multiplying & dividing fractions Working in the cartesian plane	Calculator Skills Straight line graphs Forming & solving equations Testing conjectures 3D shape	Times tables Formulae Mathematical symbols Names of shapes Method to convert units Method to convert fractions, decimals, percentages Method for solving problems	Careers links Real life problems Links to previous work Links to other subjects (to be developed)
Autumn 2 <i>November - December</i>	Place value & ordering decimals & percentages Fraction, decimal & percentage equivalence Calculator skills	Working in the cartesian plane Representing data Tables & probability Line symmetry Calculator skills	3D Shape Constructions & congruency	Ability to extract required information Algebraic rules Shape properties Use of maths instruments	Equality and diversity in maths

Spring 1 <i>January - February</i>	Ratio Solving problems with addition & subtraction Solving problems with multiplication & division Fractions & percentages of amounts	Brackets, equations & inequalities Sequences Indices Fractions & percentages	Numbers Using percentages Maths & money		
Spring 2 <i>March - April</i>	Orders & operations with directed numbers Addition & subtraction of fractions Construction, measuring & using geometric notation	Fractions & percentages Standard form Number sense	Deduction Rotation & translation Pythagoras theorem & triangular prisms		
Summer 1 <i>April - May</i>	Constructing , measuring & using geomtric notation Developing geometric reasoning	Angles in parallel lines & polygons Area of trapezia & circles	Enlargement & similarity Solving ratio & proportion problems		
Summer 2 <i>June - July</i>	Developing geometric reasoning Developing number sense Sets & probability Prime numbers & proof	Area of trapezia & circles Data handling cycle Measure of location	Rates Probability Algebraic representation		
What do students learn? - What will a student know by the end of a unit? Why? How to use and apply concepts taught. Because once pupils have gained an understanding they are			Opportunities Visit to Newmarket racecourse	Resources White Rose Maths Mathsbox	

<p>expected to apply their knowledge to problems and to correct solutions.</p> <ul style="list-style-type: none"> - What will a student know by the end of a term? Why? How to use and apply concepts taught. Because once pupils have gained an understanding they are expected to apply their knowledge to problems and to correct solutions. - What will a student know by the end of a year? Why? An extension of what they learnt the previous year. Work constantly reviewed. - What will a student know by the end of Key Stage 3? Foundations ready to start their GCSEs. Why? Knowledge built on as pupils progress through KS3 leading to GCSE work. 	<p>Parallel website- enrichment UK maths Challenge</p>	<p>Sparxmaths Bossmaths CGP textbooks GCSE textbooks Exemplar material</p>
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