Key Stage 3 September 2022-July 2023

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 *September - October*	Sequences Understand & use algebra Equality & equivalence	Ratio & scale Multiplicative change Multiplying & dividing fractions	Straight line graphs Forming & solving equations Testing conjectures	Times tables Formulae Mathematical symbols Names of shapes Method to convert units Method to convert fractions, decimals, percentages Method for solving problems Ability to extract required information Algebraic rules	Careers links Real life problems Links to previous work Links to other subjects (to be developed) Equality and diversity in maths
Autumn 2 *November - December*	Place value & ordering decimals & percentages Fraction, decimal & percentage equivalence Calculator skills	Working in the cartesian plane Representing data Tables & probability Calculator skills	3D Shape Constructions & congruency Calculator skills		

Spring 1 *January - February*	Solving problems with addition & subtraction Solving problems with multiplication & division Fractions & percentages of amounts	Brackets, equations & inequalities Sequences Indices	Numbers Using percentages Maths & money	Shape properties Use of maths instruments	
Spring 2 *March - April*	Orders & operations with directed numbers Addition & subtraction of fractions	Fractions & percentages Standard form Number sense	Deduction Rotation & translation Pythagoras		
Summer 1 *April - May*	Constructing , measuring & using geomtric notation Developing geometric reasoning	Angles in parallel lines & polygons Area of trapezia & circles Line symmetry & reflection	Enlargement & similarity Solving ratio & proportion problems Rates		
Summer 2 *June - July*	Developing number sense Sets & probability Prime numbers & proof	Data handling cycle Measure of location	Probability Algebraic representation		

What do students learn?	Opportunities	*Resources*
- 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 expected to apply their knowledge to problems and to correct solutions. - 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.	Enrichment: UK maths Challenge Students see how maths relates to the real world.	White Rose Maths Mr Carter Maths Dr Frost Maths Mathsbox Sparxmaths Bossmaths CGP texbooks GCSE texbooks Exemplar material