	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Y7	Topics and content to be learnt		Topics and content to be learnt		Topics and content to be learnt	
	Add/Subtract & Place Value	Names and Properties of 2D	Converting between FDP; +/-	Bar Charts/ Pictograms/Line	Sequences	Types of Angles and Measuring
	Multiply/Divide & BIDMAS	Shapes	/x/÷ Fractions	Graphs	Simplifying	Angle Notation & Rules
	Rounding & Estimating	Nets and 3D shapes	Decimals	Tally Charts/Two-Way Tables	Substitution	Angles in a Triangle and
	Factors/Multiples HCF and	Perimeter and Area	Percentages	& Data Types	Solving Equations	Quadrilateral
	LCM	Volume	Ratio & Proportion	Mean Median, Mode and	3 4	
	Primes, Squares & Triangular			Range		
	Numbers			Scatter Graphs and Pie Charts		
	Negative Numbers			Souther Graphs and the charts		
	Knowledge, skills and understanding explicit to these topics/stage		Knowledge, skills and understanding explicit to these topics/stage		Knowledge, skills and understanding explicit to these topics/stage	
	Basic numeracy – applying this to real life situations.		Students need basic numeracy skills to work through percentage, ratio		Students have not yet worked much on algebra from KS2. Summer 1	
	Shapes – communication of written work in terms of perimeter, area		and proportion questions – very heavily based on problem solving		sets the tone to understand what algebra is, how it works and why it is	
	and volume		questions		used.	
			By the end of this unit, students need to be able to take data given and			
			interpret the information in a form of different graphs.			
Y8	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
	Topics and content to be learnt		Topics and content to be learnt		Topics and content to be learnt	
	BIDMAS & General Number	Names and Properties of 2D	Converting between FDP; +/-	Mean Median, Mode and	Simplifying	Angles
	Problems	and 3D Shapes	/x/÷ Fractions	Range	Substitution	Reflection and Symmetry
	Conversion & Travel Graphs	Perimeter and Area	Decimals	Revisit Bar Charts & Two Way	Factorising	Rotation and Translation
	Coordinates and Straight line	Circles	Percentages	Tables, Scatter Graphs and Pie	Solving Equations	Enlargement and Combined
	graphs	Surface Area & Volume	Ratio & Proportion	Charts		Transformations
	Sequences			Cumulative Graphs & Quartiles		
	Inequalities			Probability & Venn Diagrams		
	Knowledge, skills and understanding explicit to these topics/stage		Knowledge, skills and understanding explicit to these topics/stage		Knowledge, skills and understanding explicit to these topics/stage	
	To interpret and communicate mathematical information in a variety of		At this point, students are building on their knowledge from year 7		Students are building on their algebra understanding from Summer	
	forms, appropriate to the context.		spring term, and extending their knowledge further through application		Year 7 and working on more challenging questions, building more links	
			of the topics, and stretch and challenge.		between different topics.	
	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
VO	Topics and content to be learnt		Topics and content to be learnt		Topics and content to be learnt	
	Foundation	Foundation	Foundation	Foundation	Foundation	Foundation
	Calculations	Algebraic expressions	Frequency tables	Solving equations 1	Properties of shapes	Rectangles, parallelograms and
	Decimal numbers	Simplifying expressions	Two-way tables	Solving equations 2	Angles in parallel lines	triangles
	Place value	Substitution	Representing data	Solving equations with brackets	Angles in triangles	Trapezia and changing units
Y9	Factors and multiples	Formulae	Time series	Introducing inequalities	Exterior and interior angles	Area of compound shapes
	Squares, cubes and roots	Expanding brackets	Stem and leaf diagrams	More inequalities	More exterior and interior	Surface area of 3D solids
	Index notation	Factorising	Pie charts	More formulae	angles	Volume of prisms
	Prime factors	Using expressions and formulae	Scatter graphs	Generating sequences	Geometrical patterns	More volume and surface area
		Compressions and formatic	Working with fractions	Using the nth term of a	Mean and range	voidine and surjude area
			Operations with fractions	sequence	Mode, median and range	
			Multiplying fractions	- Sequence	Types of average	
			ivialupiying ji actions		1 ypes of average	

## Key Stage 3 Subject Curriculum Overview

<u>Higher</u>	<u>Higher</u>	Dividing fractions Fractions and decimals Fractions and percentages Calculating percentages Higher	<u>Higher</u>	Estimating the mean Sampling Higher	<u>Higher</u>
Number problems and reasoning  Place value and estimating  HCF and LCM  Calculating with powers (indices)  Zero, negative and fractional indices  Powers of 10 and standard form  Surds	Algebraic indices  Expanding and factorising  Equations  Formulae  Linear sequences  Non-linear sequences  More expanding and factorising	Statistical diagrams  Time series Scatter graphs Line of best fit Averages and range  Fractions Ratios Ratio and proportion Percentages Fractions/ decimals/ percentages	Angle properties of triangles and quadrilaterals Interior angles of a polygon Exterior angles of a polygon Pythagoras' theorem Trigonometry	Linear graphs  Graphing rates of change Real life graphs Line segments Quadratic graphs Cubic and reciprocal graphs More graphs  Perimeter and area Units and accuracy Prisms Circles Sectors of circles Cylinders and spheres Pyramids and cones	Plans and Elevations  Transformations and combinations  Bearings/Loci and scale drawings
Knowledge, skills and understanding explicit to these topics/stage Students are now looking at core number topics, again building on Year 7 and 8 understanding.		Knowledge, skills and understanding explicit to these topics/stage At this point, students are acquiring, selecting and applying mathematical techniques to solve problems. They are showing more reasoning skills, and making deductions from problems.		Knowledge, skills and understanding explicit to these topics/stage Stduents are being taught to develop fluent knowledge, skills and understanding of methods and concepts.	