

Subject	Maths		Year	7	
Term	Autumn 1		Spring 1	Summer 1	
Unit of learning	Statistics and Number	Number and Algebra		Number	
Knowledge	Pictograms, bar charts and line graphs Collecting data Mean, median, Mode and Range Place value and decimals Addition and Subtraction Multiplication Division Order of operations	Rounding a	umbers	Calculations with Fractions Basic Percentages Equivalent Fractions, Decimals and Percentages Probability (Single Event)	
Term	Autumn 2		Spring 2	Summer 2	
Unit of learning	Algebra and Geometry	Geometry	,	Number and Ratio and Proportion	
Knowledge	Function machines Missing number problems 2D Shapes Angles Months of the year/days of the week Time Co-ordinates	Transforma Area and Po 3D shapes Volume and Real life gra	erimeter d Surface Area	Number problem solving Fractions of an amount Ratio and Proportion Factors and Multiples Primes Powers and Roots Metric conversions	
Rationale:	Students will consolidate and extend their knowledge from KS2. They will have the opportunity to become fluent in the fundamentals of mathematics through varied practise and recall, reason mathematical and solve problems. Pictograms and graphs to build confidence. Mean, median, mode and range using mental maths skills. Calculations follow place value. Repetition of key number topics and consolidate their numerical and mathematical capability from key stage 2 and extend their understanding of the number system and place value.				



Subject	Maths	Year	8		
Term	Autumn 1	Spring 1	Summer 1		
Unit of learning	Statistics and Number	Number and Algebra	Number and Probability		
Intent	Pictograms, bar charts and line graphs Collecting data Mean, median, Mode and Range Place value and decimals Addition and Subtraction Multiplication Division	Place Value and Decimals Rounding and Estimating Addition and Subtraction Multiplication Division Directed Numbers Inequalities Sequences Transformations	Calculations with Fractions Percentages Equivalent Fractions, Decimals and Percentages Probability		
Term	Autumn 2	Spring 2	Summer 2		
Unit of learning	Algebra and Geometry	Geometry			
Intent	Express missing number problems	Area and Perimeter 3D shapes, faces, edges and verticies Volume and Surface Area Real life graphs	Number problem solving Fractions of an amount Ratio and Proportion Factors and Multiples Primes Powers and Roots Conversions Scale diagrams and Bearings		
Rationale:	Pictograms and graphs to build confidence. Mean, median, mode and range using mental maths skills. Calculations follow place value. consolidate their numerical and mathematical capability from key stage 2 and Year 7 and extend their understanding of the number system and place value to include decimals, fractions, powers and roots. They will have the opportunity to become fluent in the fundamentals of mathematics through varied practise and recall, reason mathematical and solve problems.				



Subject	Maths	Year	9		
Term	Autumn 1	Spring 1	Summer 1		
Unit of learning	Number	Number and probability	Geometry		
Intent	Place value The 4 operations Order of operations Directed numbers Rounding Powers and roots Factors and Multiples, HCF, LCM	Equivalent Fractions, Decimals Calculations with Fractions Percentages Probability Relative Frequency	Constructions Pythagoras Volume and Surface Area Circles Transformations (including congruence and similarity)		
Term	Autumn 2	Spring 2	Summer 2		
Unit of learning	Geometry and statistics	Number and geometry	Number, multiplicative reasoning and graphs		
Intent	2D shapes Angles Area and Perimeter Frequency tables Mean, Mode, Median and Range Pictograms, bar charts and line graphs Collecting Data Pie Charts Scatter graphs	Primes and Prime Factor Decomposition Simplify Expand Factorise Conversions Solving equations sequences			
Rationale:	Place value leads onto 4 operations/directed number leads. Area, perimeter surface area and volume can use skills from autumn 1 (4 operations including decimals) Fractions of amounts and ratio together to allow understanding of multiplicative reasoning FDP before probability. Sequences links with solving equations and functions Powers and roots revisited with Pythagoras consolidate their numerical and mathematical capability from year 7 and year 8. They will have the opportunity to become fluent in the fundamentals of mathematics through varied practise and recall, reason mathematical and solve problems				