Maths Curriculum Map 2020-21

Number
Proprotional Reasoning
Algebra
Geometry
Statistics

	Year 7	Year 8	Year 9			Year 10			Year 11 (The majority of year 11 teaching is dictated by the needs of the class. We aim to recap the all prior learning and extend where possible and appropriate.)			
			Strand 1	Strand 2	Strand 3	Strand 1	Strand 2	Strand 3	Strand 1	Strand 2 Foundation	Strand 2 Higher	Strand 3
Autumn	Exploring Multiplication Round the World and Dream House projects	Integers and Place Value	Integers and Place Value	Two Way Tables, Frequency Trees and Venn Diagrams	Two Way Tables, Frequency Trees and Venn Diagrams	Expanding and Simplifying	Ratio: Simplifying, Sharing, Scaling and Problem Solving	Number: Recurring Fractions, Fractional and Negative Index Laws	Fractions: Aritmetic	Two Way Tables, Frequency Trees and Venn Diagrams	Number: Recurring Fractions, Fractional and Negative Index Laws	Advanced Trigonometry
					Product of Prime Factors/HCF/LCM, Multiples in Context		Non- Linear Graphs and Coordinate Geometry	Accuracy and Bounds		Product of Prime Factors/HCF/LCM, Multiples in Context	Accuracy and Bounds	
	Calculation and Place Value	Algebra Basics	Decimals	Product of Prime Factors/HCF/LCM, Multiples in Context	Best Value and Exchange Rates	Factorising and Solving Equations	Compound Measures	Surds	Transformations	Best Value and Exchange Rates	Surds	Bearings, Parallel Line Angle Rules, Interior and Exterior Angles
		Straight Line Graphs	Indices, Powers and Roots		Rounding, Error Intervals and Estimation		Real Life Graphs			Rounding, Error Intervals and Estimation		
	Directed Number and Inequalities	Fractions: Arithmetic	Types of number: Factors, Multiples, Primes, LCM, HCF	Best Value and Exchange Rates	Percentage of an Amount, Interest, Growth and Decay, Use of Calculator and Reverse Percentages	Changing Subject of a Formula	Money Problems	Algebra: Expanding and Factorising, Rearranging Equations, Sequences	Angles: Measuring and Calculating	Percentage of an Amount, Interest, Growth and Decay, Use of Calculator and Reverse Percentages	Algebra: Expanding and Factorising, Rearranging Equations, Sequences	Statistical Representations: Sampling, Histograms & Cumulative Frequency
		Compound Measure		Rounding, Error Intervals and Estimation		Averages	Pythagoras & Trigonometry	Coordinate Geometry: Linear and Non-Linear Graphs	Perimeter and Area, Angles, 3D forms Shapes	Fractions - Arithmetic, Reciprocals	Coordinate Geometry: Linear and Non-Linear Graphs	Transformations and Vectors
	Indices, Powers and Roots	Fractions, Decimals and Percentages	Fractions, Decimals and Percentages		Fractions - Arithmetic, Reciprocals		Factorising Expressions & Solving Equations	Surface Area & Volume			Surface Area & Volume	
	Types of number: Factors, Multiples, Primes, LCM, HCF	Ratio and Proportion	Drawing and Interpreting Tables and Charts	Percentage of an Amount, Interest, Growth and Decay	Ratio: Simplifying, Sharing, Scaling and Problem Solving	Inequalities: Solving and Representing	Bearings, Parallel Line Angle Rules, Interior and Exterior Angles	Transformations	Number: Powers, Roots, Decimals, Rounding, BIDMAS	Ratio: Simplifying, Sharing, Scaling and Problem Solving	Transformations	Coordinate Geometry: Linear and Non-Linear Graphs
				Percentages: Use of Calculator and Reverse Percentages	Standard Form	Frequency Diagrams and Scatter Graphs	Statistics, Sampling and Pie Charts	Solving and Manipulating Quadratics	Algebra: Expanding and Simplifying	Standard Form	Solving and Manipulating Quadratics	Solving and Manipulating Quadratics
	Algebra Basics: Sequences and Expressions	Real Life Graphs	Mensuration and Properties of 2D Shapes		Algebra: Index Laws, Expanding and Simplifying		Probability			Algebra: Index Laws, Expanding and Simplifying		
		Tables, Charts and Graphs	Perimeter and Area, Angles, 3D forms	Fractions - Arithmetic, Reciprocals	Factorising and Solving Equations, Changing Subject of a Formula	Direct and Inverse Proportion	Plans & Elevations	Iteration	Coordinates and Graphs	Factorising and Solving Equations, Changing Subject of a Formula	Iteration	Circle Geometry
							Constructions & Loci	Simultaneous Equations			Simultaneous Equations	
Spring	Ratio and Proportion	Algebra: Expanding and Factorising Brackets	Expressions & Substituting into simple formulae	Ratio: Simplifying, Sharing, Scaling and Problem Solving	Averages and Inequalities	Time Series and Straight Line Graphs	Circles Arcs and Sectors	Probability	Area of circles	Averages and Inequalities	Probability	Algebraic fractions
					Frequency Diagrams and Scatter Graphs					Frequency Diagrams and Scatter Graphs		Inequalities,
	Fractions: Arithmetic	Laws of Indices	Probability	Index Laws	Direct and Inverse Proportion	Non- Linear Graphs and Coordinate Geometry	Surface Area and Volume	Direct and Inverse Proportion	Surface Area and Volume	Direct and Inverse Proportion	Direct and Inverse Proportion	Function Notation, Composite and Inverse functions
	Fractions, Decimals and Percentages			Standard Form	Time Series, Straight Line Graphs, Non-Linear Graphs, Coordinate Geometry				Averages	Time Series, Straight Line Graphs, Non-Linear Graphs, Coordinate Geometry	Similarity in 2D and 3D Shapes	Probability
	Percentages	Percentages: Percentage Change including Multipliers	Two Way Tables, Frequency Trees and Venn Diagrams	Expanding and Simplifying	Compound Measures	Compound Measures	Similarity and Congruence	Similarity in 2D and 3D Shapes	Ratio, and Proportion - Recipes, Best Buys	Compound Measures	Vectors	Iteration
					Real Life Graphs	Real Life Graphs				Real Life Graphs		Direct and Inverse Proportion
	Proportion - Finances	Forming and Solving Equations	Product of Prime Factors/HCF/LCM, Multiples in Context	Factorising and Solving Equations	Money Problems	Money Problems	Transformations	Advanced Trigonometry	Real Life graphs, Money Problems	Money Problems	Advanced Trigonometry	
					Pythagoras & Trigonometry					Pythagoras & Trigonometry	Circle Theorems	Simultaneous Equations
	Algebra: Expanding and Factorising Brackets	Inequalities: Solving and Representing	Best Value and Exchange Rates	Changind Subject of a Formula	Bearings, Parallel Line Angle Rules, Interior and Exterior Angles	Pythagoras	Vectors	Statistical Representations: Sampling, Histograms & Cumulative Frequency	Percentage of an Amount, Interest, Compound Interest	Bearings, Parallel Line Angle Rules, Interior and Exterior Angles	Statistical Representations: Sampling, Histograms & Cumulative Frequency	Surds
			Rounding, Error Intervals and Estimation		Statistics, Sampling and Pie Charts, Probability	Trigonometry				Statistics, Sampling and Pie Charts, Probability		
Summer	Algebra: Solving Equations, Rearranging Formulae	Transformations	Percentage of an Amount, Interest, Growth and Decay	Averages	Plans & Elevations and Constructions & Loci	Bearings, Parallel Line Angle Rules, Interior and Exterior Angles	Sequences	Graphs: Quadratics, Simultaenous Equations, Inequalities	Sequences	Plans & Elevations and Constructions & Loci, Circles, Arcs and Sectors	Algebraic Fractions	Number: Recurring Fractions, Fractional and Negative Index Laws
		Similarity and Congruence	Use of Calculator	Inequalities: Solving and Representing	Circles, Arcs and Sectors					Surface Area and Volume,	Graphs: Quadratics, Simultaenous Equations, Inequalities	
	Inequalities: Solving and Representing	3D Shapes: Volume.	Reverse Percentages		Surface Area and Volume	Statistics, Sampling and Pie Charts	Forming and Solving Equations	Circle Geometry	Probability	Similarity and Congruence		Accuracy and Bounds
	Sequences and Straight Line Graphs	Data Handling	Fractions - Arithmetic, Reciprocals	Frequency Diagrams and Scatter Graphs	Similarity and Congruence	Probability				Transformations and Vectors	Transformations and Vectors	
	Averages	Introduction to Histograms			Transformations	Plans & Elevations and Constructions & Loci	Simultaneous Equations	Circle Theorems				
	Probability	Angles	Ratio, and Proportion - Recipes	Direct and Inverse Proportion	Vectors	Circles: Arcs and Sectors						
		3D Shapes: Surface Area			Sequences, Forming and Solving Equations		Direct and Inverse Proportion	Algebraic Fractions				
	Angles	Pythagoras	Standard Form	Time Series and Straight Line Graphs	Simultaneous Equations	Surface Area and Volume						
		Trigonometry	Index Laws		Direct and Inverse Proportion							