Maths Department - Curriculum Overview - April 2020

Key

Strand	Colour
Number	
Algebra	
Geometry and Measure	
Ratio and Proportion	
Statistics & Probability	

Yr7 Autumn Term	Algebraic Thinking			Place value			Averages	
	Sequences	Understand and use algebraic notation	Equivalence, solving one and two steps equations	Place value and ordering integers and decimals	Approximating calculations and estimation		Median, range, mean, 2-way tables, frequency trees	
ing	Applicat Num		Ratio				tions and ecimals	
Yr7 Spring Term	Solving problems using the 4 operations	Order of operations	Understand and use ratio notation, ratio/fractions equivalence	with directed and		and	tion, decimal I percentage quivalence	
ner	Lin	es and An	gles	Perimeter and Area	Re	asoni Num	ng with ber	
Yr7 Summer Term	Construction measuring and geometric no	d using on a	erties of angles: line, around a it, in a triangle n quadrilaterals	Area and Perimeter of squares, rectangles and triangles	Prime Multip numbers LCM a		Factors, Multiples, LCM and HCF	

Yr8 Autumn Term	Fractions	•	rtional oning	Developing Angles	Deve d	lop ata	ing
	Operations with fractions	Ratio and scale	Multiplicative change	Angles in parallel lines and polygons	Sets an probabil		Scatter graphs
ng	Algebi	raic techn	iques	Developing Nu	umbers	Gr	aphs
Yr8 Spring Term	Use of brackets, expand and factorise	Equations and inequalities	Indices	Fraction and percentage of a quantity, percentage change, interest	Standard index form	coor and	rtesian dinates straight graphs
er	Develo	ping Geo	metry	Reasoning with Data		For	mulae
Yr8 Summer Term	Area of parallelogram, trapezium and circle	Line symmetry, reflection, and rotation	Volume: cubes, cuboids, prisms and cylinders	The data handling continuous data, a from tables	verages	for cha	riting mulae, ange of abject

Yr9 Autumn Term	Reasoning with Algebra			Reasoning with Geometry			
	Equation of a straight line	Simultaneous equations	Graphical solutions of equations and inequalities	Vectors	Translation and enlargement	Similarity and congruency	
Spring erm	Statistics		ing with nber	Working with triangles			
Yr9 Spri Term	Sampling, moving averages, time series	Bounds, truncation, error interval	Surds	Pythagoras' theorem	Trigonometry in right angled triangles	Trigonometry graphs and equations	
ner	Probability		ing with ortion	Quadratics			
Yr9 Summer Term	Probability trees	Ratio and proportion problems, rates	Product rule for counting, capture and recapture	Solving quadratic equations (factorise and formula)	Quadratic graphs	Completing the square	

Yr10 Autumn Term	Working in 2D and 3D			Deve	Developing Algebra			
	Plans and elevations, converting square and cubic units	Volume of pyramids, cones are		Quadratic inequalities	Cubic, reciprocal and exponential graphs	Algebraic fractions		
рu	Geometry			Proportion	Proportional Change			
Yr10 Spring Term	Circle theorems	Further trigonometry	Bearings and loci	Direct and inverse proportion	Instantaneous and average rate of change	Functions		
	Delving into Data			Applying	Probability			
Yr10 Summer	. , ,	olygons, cumulat ox plots, histogra	• • •	Vectors and geometric proof	Area under the graph	Algebra and probability, more complex Venn diagrams		

Yr11 Autumn Term	Graphs			Complex Algebra			
	Real life graphs – interpreting gradient and intercept	Sketching graphs	Transformations of graphs	Conjecture and proof	Iteration	Equation of circles, and tangents	
БL	Reasoning			Communication Marks			
Yr11 Spring Term	Multiplicative	Geometric	Algebraic	Transforming and Constructing	Listing and describing	Show that	
Yr11 Summer Term	Revision			Revisi	on/Examin	ations	