

THE HIGHEST STANDARDS Always set and deliver the highest standards. Never set the bar low.	INVEST TO ACHIEVE Consider how we spend the time and effort we put in to achieve.	EVERYONE IS VALUED We are unique individuals working together to do the best.	NO EXCUSES Create solutions, not excuses.	NEVER GIVE UP Resilience is essential. Well-being drives empowerment.	CULTIVATE YOUR CHARACTER Qualities that you gain define your character, get you through them.
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Mathematics Year 12 2023-2024

Half Term 1	Week 0	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	
Mech		Baseline Assessment	P1: Algebraic Expressions		P4: Graphs and Transformations		P5: Straight Line Graphs		Holiday
Stats			P2: Quadratics			P3: Equations and Inequalities		P7: Algebraic Methods	
Half Term 2	Week 8	Week 9- LC1	Week 10	Week 11	Week 12	Week 13	Week 14	Week 15	Holiday
Mech	P6: Circles		P9: Trigonometric Ratios		P10: Trigonometric Identities and Equations		P11: Vectors		
Stats	P7: Algebraic Methods	P8: Binomial Expansions		P12: Differentiation			P13: Integration		
Half Term 3	Week 16	Week 17	Week 18	Week 19	Week 20- LC2				
Mech	P14: Exponentials and Logarithms			M8: Introduction to Mechanics	M9: Constant Acceleration	Holiday			
Stats	P13: Integration	S1: Data Collection		S2: Measures of Location and Spread					
Half Term 4	Week 21	Week 22	Week 23	Week 24	Week 25	Week 26			
Mech	M9: Constant Acceleration	M10: Forces and Motion			Revision	Trial Examinations	Holiday		
Stats	S3: Representations of Data		S4: Correlation						
Half Term 5	Week 27	Week 28	Week 29	Week 30	Week 31- LC3	Week 32			
Mech	CTG		M11: Variable Acceleration		P2*: Functions and Graphs		Holiday		
Stats			S5: Probability		S6: Statistical Distributions				
Half Term 6	Week 33	Week 34	Week 35	Week 36	Week 37	Week 38	Week 39		
Mech	P5*: Radians		P6*: Trigonometric Functions		Revision	Tital Examinations	CTG		
Stats	S7: Hypothesis Testing		P1*: Algebraic Methods						

How does this year deliver your curriculum intent?

Study within year 12 builds upon prior learning from year 10 and 11, especially regarding algebra and geometry. Students are presented problems in unfamiliar contexts and work on their resilience to complete these problems. They will be able to adapt methods shown to apply to all situations. Within statistics, students look at the relevance of mathematics in the real world- especially with the large data set. Links to geography and physics are explicit across the curriculum.

During week 1, all students will complete a baseline assessment that will test their understanding of the powerful knowledge from GCSE Mathematics. Students will be given a bespoke CTG task based on this assessment and will receive support for this during the after school Achieve sessions in the first half term.

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Further Mathematics Year 12 2023-2024

Half Term 1	Week 0	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	
Half Term 1			CP1/2: Complex Number and Argand Diagrams		CP3: Series	CP4: Roots of Polynomials	CP6: Matrices		Holiday
Half Term 2	Week 8	Week 9- LC1	Week 10	Week 11	Week 12	Week 13	Week 14	Week 15	
Half Term 2	CP7: Linear Transformations		CP8: Proof by Induction	CP9: Vectors			D1: Algorithms		Holiday
Half Term 3	Week 16	Week 17	Week 18	Week 19	Week 20- LC2				
Half Term 3	D2: Graphs and Networks		D3: Algorithms and Graphs		D4: Route Inspection	Holiday			
Half Term 4	Week 21	Week 22	Week 23	Week 24	Week 25		Week 26		
Half Term 4	D5: Travelling Salesman		D6: Linear Programming		Revision	Trial Examinations	Holiday		
Half Term 5	Week 27	Week 28	Week 29	Week 30				Week 31- LC3	Week 32
Half Term 5	CTG		D7: Simplex Algorithm		D8: Critical Paths Analysis		CP5: Volumes of Revolution	Holiday	
Half Term 6	Week 33	Week 34	Week 35	Week 36	Week 37	Week 38	Week 39		
Half Term 6	CP1*: Complex Numbers		CP2*: Series		Revision	Tital Examinations	CTG		

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