



Mathematics- Curriculum Overview

Year 7

Half Term:	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Topics:	Ch 1 Number Sense	Ch 2 Expressions and Equations Ch 3 Measures Ch 4 2D Shapes Ch 5 Perimeter and Area	Ch 6 Coordinates Ch 7 Factors, Multiples and Primes	Ch 8 Fractions Ch 9 Brackets Ch 10 Angles Ch 11 Handling Data and Statistical Diagrams	Ch 11 Handling Data and Statistical Diagrams Ch 12 Proportion Ch 13 Fractions, decimals and percentages	Ch 14 Probability Consolidation
Assessment & End Points:	Negative Numbers test Ch 1 Number sense test	Ch 2 Algebra Test Ch 3 Using Time Test	2 papers on content covered	Ch 8 Fractions Test Ch 11 Averages Test	Ch 12 Proportion Test	Final end of year assessment

Year 8

Half Term:	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Topics:	Ch 1 Whole Numbers and Decimals Ch 2 Measures, Area and Perimeter Ch 3 Expressions and Formulae	Ch 4 Fractions, decimals and percentages Ch 5 2D shapes and Angles Ch 6 Graphs	Ch 7 Mental Calculations Ch 8 Statistics Ch 9 Transformations and Symmetry	Ch 10 Equations Ch 11 Written and Calculator methods	Ch 12 Constructions Ch 13 Sequences	Ch 14 3D shapes Ch 15 Ratio and Proportion Ch 16 Probability
Assessment & End Points:	Ch 1 test Whole Numbers and Decimals Ch 2 test Measures, area and perimeter	1 paper on content covered	Ch 6 Graphs Ch 7 test Mental Calculations	Ch 10 test Equations	End of year assessments (2 papers)	Ch 15 test ratio and proportion Ch 16 test Probability

Year 9

Half Term:	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Topics:	Ch 1 Whole Numbers and Decimals Ch 2 Measures, Area and Perimeter Ch 3 Expressions and Formulae	Ch 4 Fractions, decimals and percentages Ch 5 2D shapes and Angles Ch 6 Graphs	Ch 7 Decimal Calculations Ch 8 Statistics	Ch 9 Transformations and scale Ch 10 Equations Ch 11 Powers and roots	Ch 12 Constructions and Pythagoras Ch 13 Sequences Ch 14 3D shape	Ch 15 Ratio and Proportion Ch 16 Probability
Assessment & End Points:	Ch 2 test Measures, area and shape Ch 3 test Expressions and Formulae	Ch 4 test Fractions decimals and percentages 1 paper on content covered	Ch 8 test Statistics	Ch 9 test Transformations and scale Ch 11 test powers and roots	Ch 12 test Constructions and Pythagoras	End of year assessments (2 papers) Ch 15 test Ratio and Proportion



Mathematics- Curriculum Overview

Year 10

Half Term:	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Topics:	1. Basic Number 2. Basic Algebra 3. Fractions Decimals Percentages 4. Rounding	5. Ratio and proportion 6. Angles Scale Diagrams, Bearings 7. Data handling 8. Area, perimeter, circles	9. Equations and graphs 10. Indices and standard form 11. 2D shapes	12. Basic Probability 13. Transformations 14. Percentages 15. Data	17. Algebra, Quadratics, Rearranging, formulae	16. Surds (Higher only) 18. Measures 19. Sequences 20. Constructions and loci
Assessment & End Points:	Number test Algebra test Rounding test	Data test Circles test	Mini Mock	Probability test Transformations test	Quadratics test	Mock exams

Year 11

Half Term:	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Topics:	Ch 15 Working in 3D Ch 16 Handling data 2 Ch 19 Trigonometry and Pythagoras part 2	Ch 18 Graphs 2 Mock exam preparation	Ch 22 Proportionality Ch 20 Probability Ch 21 Sequences	Ch 17 Calculations 2 Exam preparation Revision and reviewing topics. Problem solving and exam technique.	Exam preparation Revision and reviewing topics. Problem solving and exam technique.	Exam preparation Revision and reviewing topics. Problem solving and exam technique.
Assessment & End Points:	Handling data test Pythagoras and Trigonometry test	Mock exams – 2 papers	Ratio and proportion test	Exam preparation and Core Mock Exams		



Mathematics- Curriculum Overview

Year 12 Mathematics

Half Term:	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Topics:	Ch 1 Algebraic Expressions Ch 2 Quadratics Ch 3 Equations and Inequalities Ch 4 Graphs and Transformations Ch 5 Straight Line Graphs Ch 9 Trigonometric Ratios Ch 10 Trigonometric Identities and Equations	Ch 6 Circles Ch 7 Algebraic Methods Ch 10 Trigonometric Identities and Equations Ch 12 Differentiation Ch 13 Integration	Ch 8 The Binomial Expansion Ch 11 Vectors Ch 14 Exponentials and Logarithms Ch 1 Data Collection Ch 2 Measures of location and spread Ch 8 Modelling in Mechanics	Ch 3 Representations of data Ch 4 Correlation Ch 5 Probability Ch 6 Statistical Distributions Ch 9 Constant Acceleration Ch 10 Forces and Motion Ch 11 Variable Acceleration	Ch 7 Hypothesis Testing Ch 1 Algebraic Methods Ch 2 Functions and Graphs Ch 5 Radians Ch 6 Trigonometric Functions	Mocks, revision and feedback Ch 2 Functions and Graphs Ch 6 Trigonometric Functions
Assessment & End Points:	Baseline Test Ch 4 test Ch 2 and 3 Test	Ch 6 test Ch 10 test	Pure Mock Exam	Measures of locations and spread test Ch 11 mixed exercise	Ch 7 mixed exercise Ch 5 mixed exercise	Mocks

Year 12 Further Mathematics

Half Term:	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Topics:	Complex Numbers Algebra and Series Algorithms Graphs and networks	Algebra and Series Matrices Route inspection The travelling Salesman Linear Programming	Integration Vectors The Simplex Algorithm Critical path analysis	Vectors – equation of a plane Review, recap, revise	Revision and mock prep	Complex Numbers-Ch6 Exponential form, De’Moivre’s theorem, Roots of unity Series-Ch7 Method of differences, Polar Co-ordinates, Hyperbolic functions
Assessment & End Points:	Algorithm assessment Complex numbers assessment	Algebra and series assessment Algorithms on graphs assessment	Integration assessment Pure partial paper	Decision 1 partial paper Simplex test	Mock exams	Mini low stakes tests – teacher will inform



Mathematics- Curriculum Overview

Year 13 Mathematics

Half Term:	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Topics:	T1 Vectors Ch12 T1 Sequences Ch 13 T1 Integration Ch16 T2 Trigonometric identities Ch 14 Differentiation Ch 15	T2 Differentiation Ch 15 T1 Integration and differential equations Ch 16 T1/2- Numerical methods Ch 17	T1 revision and mock exam prep – pure T1 Probability and continuous random variables Ch 20 T2 Motion in 2D Ch 18	T1 Hypothesis testing Ch 21 T2 Motion in 2D Ch 18 Forces Ch 19	Exam preparation	
Assessment & End Points:	Mini assessments on sequences and series	Mini assessment on integration and differentiation.	Pure Mock	Practice exam papers	Practice exam papers	

Year 13 Further Mathematics

Half Term:	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Topics:	Momentum and Impulse Ch1 Work, Energy and Power Ch2 Differentiation and Integration Ch 8	Elastic strings and springs Ch 3 Elastic collisions in one-dimension Ch 4 Differentiation and integration Ch 8 Differential equations Ch 9	Elastic collisions in 2D Ch 5 Differential equations Ch 9 Revision and prep for mock exam	Elastic collisions in 2D Ch 5 Revision	Exam preparation	
Assessment & End Points:		Mini low stakes tests – teacher will inform	Mocks	Practice exam papers	Practice exam papers	



Mathematics- Curriculum Overview

Year 12 Core Mathematics

Half Term:	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Topics:	Working with formulae and spread sheets Ch 2 Percentages Ch 3 Financial Problem solving Ch 5 Roughly speaking Ch 4 Measures and scaling Ch 10 It's Normal Ch 8	Working with data Ch 6 Representing the real world graphically Ch 7 Probability and risk Ch 1 Working with exponentials Ch 9 Revision	Revision Problem solving with the Normal distribution Ch 17 Using statistics to solve problems Ch 18	Hypothesis testing and the chi-squared test Ch 19 Bivariate data Ch 20 Revision	Revision	
Assessment & End Points:	Star marking Ch 3 Star marking Ch 4 Star marking Ch 8	Star marking Ch 6	Mock paper 1	Star marking Ch 19	Mock paper 2	