Mathematics- Curriculum Overview

Year 7

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 Whole Number Calculations Ch 8 Statistics	Ch 9 Transformations and Symmetry Ch 10 Equations	Ch 11 Factors and Multiples Ch 12 Constructions and 3D shape Ch 13 Sequences	Ch 14 Decimal Calculations Ch 15 Ratio and Proportion Ch 16 Probability
Assessment & End Points:	Baseline test for those with no KS2 data Ch 3 Expressions and Formulae	Ch 4 test Fractions, decimals and percentages Ch 5 test 2D shapes and Angles	SATS paper 1 and p2 Ch 7 test Whole Number Calculations	Ch 8 test Statistics Ch 9 test	Ch 12 test Constructions and 3D shape SATS paper 3	Ch 16 test Probability

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	SATs P1	Ch 6 Graphs Ch 7 test Mental Calculations	Ch 10 test Equations	SATs p2 and p3	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 SATs p1	Ch 8 test Statistics	Ch 9 test Transformations and scale Ch 11 test powers and roots	Ch 12 test Constructions and Pythagoras	SATs p2 SATs p3 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:	Number 1 Calculations Algebra 1 Expressions Geometry 1 Angles and Polygons	Statistics 1 Handling Data Number 2 Fractions, Decimals and Percentages Algebra 2 Formulae and Functions	Algebra 2 Formulae and Functions Geometry 2 working in 2D Statistics 2 Probability	Number 3 Measures and Accuracy Algebra 3 Equations and inequalities	Geometry 3 Circles and constructions Ratio and Proportion 1 Mock Revision and prep	Number 4 factors, powers and roots Algebra 4 Graphs 1 Geometry 6 Trigonometry and Pythagoras Part 1
Assessment & End Points:	Baseline test on number and algebra Ch 2 test on Expressions	Chapter 4 test on Statistics GCSE paper 1	Ch 6 test on Formulae and Functions Ch 7 test on 2D shape	GCSE paper 2 Ch 10 Equations test	Mock paper 1 Mock paper 2	Ch 12 Ratio and Proportion test Pythagoras test

Year 11

Half Term:	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Topics:	Geometry 4 working in 3D Statistics 2 Handling data 2 Geometry 6 Trigonometry and Pythagoras part 2	Algebra 5 Graphs 2 Mock exam preparation	Number 5 Calculations 2 Statistics 4 Probability Algebra 6 Sequences	Ratio and Proportion 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:	Ch 15 Geometry test Ch 19 Trigonometry test	Mock exams – 2 papers	Ch 20 test Probability Mock exams 2 papers	Exam preparation		

Year 12 Mathematics

Half Term:	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Topics:	T1 Algebra 1 Ch1 T2 Trigonometry Ch 3 T2 Differentiation and integration Ch 4	T1 Polynomials and Binomial expansion Ch 2 T1 Exponential and logs Ch 5 T2 Differentiation and integration Ch 4 T2 Vectors Ch 6 T2 Exponentials and logs Ch 5	T1 Data Ch 9 T2 Units and kinematics Ch 7	T1 Probability Ch 9 T1 Hypothesis testing Ch 10 T2 Forces and Newtons Law Ch 8	Large Data set Review, recap, exam technique and mock prep	Mock feedback T1 Algebra 2 Ch 12 proof, algebraic fractions, Functions, parametric equations T2- Trigonometry Ch 14, radians, reciprocal and inverse trig functions
Assessment & End Points:	Test 1 Baseline test Test 2 on Ch 1 Test 3 on Ch 3	Test 4 Ch 2 Test 5 Ch 4	Test 6 Pure exam Low stakes test on Ch9 & 7	Mini low stakes tests – teacher will inform	Mock exams	Stats and Mechanics paper Mini low stakes tests – teacher will inform

Mathematics- Curriculum Overview

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

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:	UCAS Mock Mini assessments on sequences and series	Mini assessment on integration and differentiation.	Pure Mock	Practice exam papers	Practice exam papers	

Mathematics- Curriculum Overview

Year 13 Further Mathematics

Half Term:	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Topics:	Revision and UCAS mocks 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:	UCAS mock	Mini low stakes tests – teacher will inform	Mocks	Practice exam papers	Practice exam papers	