



# 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 Ch 3 Expressions and Formulae	Ch 4 test Fractions, decimals and percentages Ch 5 test 2D shapes and Angles	SATS paper 1 Ch 7 test Whole Number Calculations	Ch 8 test Statistics Ch 9 test	Ch 12 test Constructions and 3D shape SATS paper 2 and 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 and 2	Ch 6 Graphs Ch 7 test Mental Calculations	Ch 10 test Equations Ch 11 test Written and Calculator methods	Ch 13 test Sequences SATs 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 7 Decimal Calculations Ch 8 test Statistics	Ch 9 test Transformations and scale Ch 11 test powers and roots	Ch 12 test Constructions and Pythagoras Ch 13 mini low stakes test	SATs p2 SATs p3



# 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 Cross over papers	Mini mocks and another full exam paper		

## 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 T1 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 and algebraic fractions T2 Algebra 2 Ch 12 Functions, parametric equations and vectors
Assessment & End Points:	Test 1 Baseline test Test 2 on Ch 1 and 3	Test 3 on Ch 1 Test 4 Ch 1 and 2 Test 5 Ch 3 and 4	Test 6 Pure exam	Mini low stakes tests – teacher will inform	Mock exams	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	Further mechanics momentum and impulse, work energy and power. Yr 13 skills, calculus, trig Complex numbers
Assessment & End Points:	Test 1 Baseline test Algorithm assessment Complex numbers assessment	Algebra and series assessment	Integration assessment Simplex test	Decision 1 paper	Mock exams	

## Year 13 Mathematics

Half Term:	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Topics:	T1 Sequences Ch 13 T1 Numerical methods Ch 17 T2 Trigonometric identities Ch 14 Differentiation Ch 15	T2 Differentiation Ch 15 T1/2 Integration and differential equations Ch 16	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 Trigonometry and series	Mini assessment on integration.	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 Elastic strings and springs Ch 3 Elastic collisions in one- dimension Ch 4 Series and Polar Coordinates Ch 7	Elastic collisions in 1D Ch 4 Elastic collisions in 2D Ch 5 Integration and differentiation Ch 8	Maclaurin Series Ch 8 Revision and prep for mock exam	Differential equations Ch 9	Exam preparation	
Assessment & End Points:	UCAS mock	Integration and Differentiation test	Mocks	Practice exam papers	Practice exam papers	