Year 12 Mathematics

Students in Year 12 have two teachers (A and B). Teacher A teaches Pure and Statistics and Teacher B teaches Pure and Mechanics.
Students will develop strong subject knowledge across a range of specialisms, learning how to apply mathematical skills in a variety of contexts, including mathematical modelling, formal proofs and interpreting data in real-life situations using the 'large data set'. Teachers encourage, through their own enjoyment, interest in mathematical based post-18 courses.

Year 12 Curriculum	Autumn Term 1	Autumn Term 2	Spring Term 1	Spring Term 2	Summer Term 1	Summer Term 2
Topic(s)	**Teacher A** Chapter 2: Indices and Surds Chapter 3: Quadratic Functions Chapter 5: Using Graphs **Teacher B** Chapter 11: Triangle Geometry Chapter 10: Trigonometric Functions and Equations	**Teacher A** Chapter 4: Polynomials Chapter 9: Binomial Expansion **Teacher B** Chapter 6: Coordinate Geometry Chapter 12: Differentiation Chapter 13: Applications of Differentiation	**Teacher A** Chapter 7: Logarithms Chapter 8: Exponential Models **Teacher B** Chapter 14: Integration Chapter 1: Proof and Mathematical Communication	**Teacher A** Chapter 20: Working with Data Chapter 21: Probability **Teacher B** Chapter 15: Vectors Chapter 16: Introduction to Kinematics	**Teacher A** Chapter 22: Statistical Hypothesis Testing **Teacher B** Chapter 17: Motion with Constant Acceleration Chapter 18: Forces and Motion Chapter 19: Objects in Contact	**Teacher A** **Teacher B**
Assessment	Diagnostic Test 1 Diagnostic Test 2	Diagnostic Test 3 Diagnostic Test 4	Diagnostic Test 5 Diagnostic Test 6		Diagnostic Test 7 - Statistics Diagnostic Test 8 – Mechanics	**Internal Year 12 Summer Examination** These internal examinations take place in the Main

						Hall. There will be three papers: Paper 1 – Pure and Mechanics Paper 2 – Pure and Statistics

Independent Work
Students are expected to complete Chapter Review questions (CRQs) following each chapter studied. Additionally, practice questions must be completed to demonstrate knowledge and understanding of the content covered. Students should be spending approximately 3 hours per week doing private study – revising and practicing questions from the textbook and past papers.