Subject:

Mathematics

KS5 - Year 12 Curriculum Overview

Autumn Term

Topics being taught	What you will be assessed on	How you can support at home
Pure Algebra Indices and Surds Coordinate Geometry Polynomials Graphs and Transformations The Binomial Expansion **Applied** Kinematics Collecting and Interpreting Data	**Term 1** Baseline test on Algebra Topic test on Coordinate Geometry Topic test on Kinematics **Term 2** Synoptic test	Ensure you have a Calculator suitable for A level study (Casio fx-991CW). These can be bought through *ParentPay*. Ensure you have separate folders for both Pure and Applied with work organised into separate topics using dividers Ask about independent learning. This should be in blue books for Pure and alpha workbooks for Applied. Use *Uplearn* regularly to recap and revise Maths content

CHRISTMAS HOLIDAYS - CHRISTMAS HOLIDAYS - CHRISTMAS HOLIDAYS - CHRISTMAS HOLIDAYS

Spring Term

Topics being taught	What you will be assessed on	How you can support at home
Pure Differentiation Integration Trigonometry **Applied** Probability Discrete Random Variables Forces Variable Acceleration	**Term 3** Topic test on Binomial Expansion and Differentiation Topic test on Forces **Term 4** Synoptic test	Use websites such as Integral and Dr Frost for revising maths topics Stress the importance of good presentation in solving maths problems Use *Uplearn* regularly to recap and revise Maths content Keep up with the organisation of work into files. Use green pen to mark work and write revision pointers.

EASTER HOLIDAYS - EASTER HOLIDAYS - EASTER HOLIDAYS - EASTER HOLIDAYS - EASTER HOLIDAYS

Summer Term

Topics being taught	What you will be assessed on	How you can support at home
Pure Exponentials and Logarithms Proof Sequences and Series The general Binomial Expansion Rational Functions **Applied** Vectors The Binomial Distribution Hypothesis Testing Probability	**Term 5** Topic test on Exponentials, Logarithms and Proof **Term 6** End of year Maths mock	Have a revision timetable to revise for all topics leading up to mocks Use AS past papers to revise: https://mmerevise.co.uk/a-level-maths-revision/aqa-past-papers/ Use UKMT Senior Maths Challenge questions to develop mathematical thinking: https://www.ukmt.org.uk/ Reread the year 12 study guide given at the start of the year and set targets for next year