



Maths &
Computing

Course Details		Mathematics
Exam Board	OCR (TBC)	
Syllabus title	Mathematics (2 year linear)	
Course Code	H240	
Course Content	<p>The aim of the course is to develop mathematical thinking and problem solving, building on the techniques learnt in the Higher GCSE. Students study a mixture of Pure Mathematics, Statistics, and Mechanics.</p> <p>In Pure Mathematics you will study: Proof, Algebra and Functions, Coordinate Geometry in the x-y Plane, Sequences and Series, Trigonometry, Exponentials and Logarithms, Differentiation, Integration, Vectors, and Numerical Methods.</p> <p>In Statistics you will study: Statistical Sampling, Data Presentation and Interpretation, Probability, Statistical Distributions, and Statistical Hypothesis Testing.</p> <p>In Mechanics you will study: Quantities and Units, Kinematics, Forces and Newton's Laws, and Moments.</p>	
Assessment and weighting	For the A level qualification you will sit 3 exams at the end of the second year (2 hours each). The switch from a modular course to a linear one has meant that there are no longer any exams at the end of the first year with the exception of internal assessments. There is no coursework for this qualification.	
Trips/visits	None.	
Future opportunities/career	Mathematics is a "facilitating subject", approved by Russell Group universities. It is a preferred course for studying Science, Computing, Engineering and Technology, and also an important part of Business, Economics, Geography and Psychology.	



Person Specification		Mathematics
Qualifications/ School record	Essential	
		<ul style="list-style-type: none">• Candidates must have achieved a grade 7 in higher tier GCSE Mathematics. Candidates with a high grade 6 may be considered, in consultation with their year 11 Mathematics teacher.
Attitude/Qualities		<ul style="list-style-type: none">• Hard working• Resilient• Willing to seek help when stuck• Enjoy Maths (particularly Algebra).
	Skills	<ul style="list-style-type: none">• Independent learner• Problem solver
Experience		
Qualifications/ School record	Desirable:	
		<ul style="list-style-type: none">• 95% Attendance in year 11
Skills		<ul style="list-style-type: none">• Able to make connections within Maths itself and with the outside world
Experience		<ul style="list-style-type: none">• Have participated in the Junior or Intermediate Maths Challenges.