

## Sixth Form Subject Information

# Mathematical Studies



<b>Qualification</b>	Level 3 – equivalent to AS	
<b>Exam Board</b>	AQA	
<b>Course Leader</b>	Mrs Hunt	
<b>Course summary</b>	<p>Mathematical Studies aims to prepare students for the mathematical demands of higher education and work where there is a distinct mathematical or statistical element, but where the mathematical demands do not stretch to a requirement for A-level mathematics. It is especially useful for those students who are studying Geography, Psychology, Business Studies and Economics.</p> <p>A course of study leading to this qualification should enable students to:</p> <ul style="list-style-type: none"> <li>➤ study a mathematics curriculum that <b>is integrated with other areas of their study, work or interest</b> leading to the application of mathematics in these areas</li> <li>➤ develop mathematical modelling, evaluating and reasoning skills</li> <li>➤ solve problems some of which will not be well defined and may not have a unique solution</li> <li>➤ solve substantial and real life problems encountered by adults</li> <li>➤ use ICT as an exploratory tool for developing mathematical understanding and when solving problems</li> <li>➤ develop skills in the communication, selection, use and interpretation of their mathematics</li> <li>➤ enjoy mathematics and develop confidence in using mathematics</li> </ul>	
<b>What will students learn?</b>	<b>Paper 1</b>	Analysis of data Mathematics for personal finance Estimation
	<b>Paper 2</b>	<u>2A - Statistical Techniques</u> <ul style="list-style-type: none"> <li>➤ Critical analysis of given data and models</li> <li>➤ Normal distribution</li> <li>➤ Probabilities and estimation</li> <li>➤ Correlation and regression</li> </ul>
<b>How will students be assessed?</b>	The qualification is linear with students being examined at the end of the course. There are two papers, each 1.5 hours and worth 60 marks with equal weighting. Paper 1 is compulsory and Paper 2 is one chosen as Statistical techniques	
<b>Differentiation</b>	Exercises are available to stretch the more able and support in terms of 1:1 is given to those needing more help.	
<b>Resources</b>	Textbooks and all written resources will be provided. Students will need a scientific calculator (graphical calculator is optional).	