

	Mechanics	<p>Know that the acceptance region is the range of possible values, that the discrete random variable can take, that do not lie in the critical region and that if the test statistic lies in the acceptance region that this will lead to the acceptance of the null hypothesis, appreciate that if the test statistic corresponds to a critical value in the critical region that the null hypothesis is rejected, or that if the test statistic is in the acceptance region then the null hypothesis is accepted.</p> <p>Analysis of data using statistical packages.</p> <p>At AS students are required to become familiar with one or more specific large data set(s) in advance of the final assessment (these data must be real and sufficiently rich to enable the concepts and skills of data presentation and interpretation in the specification to be explored). Use technology such as spreadsheets or specialist statistical packages to explore the data set(s). Interpret real data presented in summary or graphical form and use data to investigate questions arising in real contexts. Pupils are encouraged to use statistical data sets and statistical packages throughout the course of study of statistics</p>					
Assessment / Feedback Opportunities		Topic assessments	Self-assessment sheets	Homework	Formative teacher assessment - verbal	Retrieval practice	
Cultural Capital		<ul style="list-style-type: none"> • Tolerance and respect for peers and mathematicians • Democracy: allowing all to speak and voice views 					
SMSC / Promoting British Values (Democracy, Liberty, Rule of Law, Tolerance & Respect)		Willingness to participate in, and respond to mathematical opportunities. Use of social skills in different contexts, including working and socialising with pupils from different religious, ethnic and socio-economic backgrounds.					
Reading opportunities		<ul style="list-style-type: none"> • Fermat's Last Theorem, History of computer programming, Newton's Laws of Motion. 					
Key Vocabulary		Trigonometry, Hypothesis, Equilibrium, Resultant Forces.					
Digital Literacy		Autograph, Desmos for graphing. Geogebra.					
Careers		Architect, Sports science, Engineer, Statistician, Business- manager, Market research. Computer Programmer, Video game development.					

