## Subject: Maths Applied Curriculum

## Year 12



## Maths A' Level (Edexcel)

Overview Designed to advance learners' skills while developing knowledge, Edexcel's qualifications help learners either progress to higher education or go directly into employment. They are grounded in the quality and traditions of the British education system made relevant for today's UK and international learner.

	Half Term 1	Half Term 2	Assessment
	Statistics	Representations of Data continued	Our first assessment in
	Introduction to Statistics	Boxplots	Applied Maths takes place
	Large data set link summary	Cumulative Frequency	at the end of HT2
	statistics into large data set e.g.	Histograms	
ε	find the mean, median and	Comparing Data	
Term	standard deviation of data from	Correlation	
Ę	each set.	Correlation	
Autumn	Measures of Location and Spread	Linear Regression	
Aut	Measures of Central Tendency	Probability	
	Other Measures of Location	Calculating Probabilities	
	Measures of Spread	Venn Diagrams	
	Variance and Standard Deviation	Mutually Exclusive and Independent	
	Coding	Events	
	Representations of Data	Tree Diagrams	
	Outliers		

	Half Term 3	Half Term 4	Assessment
Spring Term	<ul> <li>Data Collection</li> <li>Populations and Samples</li> <li>Sampling</li> <li>Non-random Sampling</li> <li>Types of Data</li> <li>Statistical Distributions</li> <li>Probability Distributions</li> <li>The Binomial Distribution</li> <li>Cumulative Probabilities</li> </ul>	<ul> <li>Hypothesis Testing</li> <li>Hypothesis Testing</li> <li>Finding Critical Values</li> <li>One-tailed Tests</li> <li>Two-tailed Tests</li> <li>Mechanics</li> <li>Modelling in Mechanics</li> <li>Constructing a Model</li> <li>Modelling Assumptions</li> <li>Quantities and Units</li> <li>Working with Vectors</li> <li>Constant Acceleration</li> <li>Displacement-time Graphs</li> </ul>	We do two assessments in Applied Maths. One towards the end of each half term

	Half Term 5	Half Term 6	Assessment
Summer Term	<ul> <li>Constant Acceleration continued</li> <li>Velocity-time Graphs</li> <li>Constant Acceleration formulae 1</li> <li>Constant Acceleration formulae 2</li> <li>Vertical Motion Under Gravity</li> <li>Forces and Motion</li> <li>Force Diagrams</li> <li>Forces as Vectors</li> <li>Forces and Acceleration</li> <li>Motion in 2 Dimensions</li> </ul>	<ul> <li>Variable Acceleration</li> <li>Functions of Time</li> <li>Using Differentiation</li> <li>Maxima and Minima Problems</li> <li>Using Integration</li> <li>Constant Acceleration Formulae</li> </ul>	The main assessment in HT5 & 6 take place shortly after half term and are a full set of Summer exams.

Connected Particles	
Pulleys	

Useful Resources for Supporting Your Child at Home:	Homework:
https://integralmaths.org/ https://padlet.com/andrewharrison6/ks5-resources- uej0gwybac1nnc9f	<ul> <li>Homework is much more extensive, and we expect students to take control of their own work and spend longer on It (a minimum of 300 mins per week).</li> <li>Minimum Expectations are:</li> <li>All questions especially "P" &amp; "E" questions from exercises in the textbooks are to be completed self-marked and corrected.</li> <li>All MEI Section test to be completed online this is marked by the online program</li> <li>When requested Topic Assessment tests and exam practice questions might be set by teachers.</li> <li>Other Topic specific questions are available in Class Material in Teams.</li> </ul>