

NAME		Assignment Grade			Review Exercise Grade	
My KS5 Target Grade is		End of Cycle Assessment				
		SAE	AE	E	BE	SBE

YEAR 12 Mathematics	CYCLE 2: Pure Units: 3 & 4a
----------------------------	--

	Knowledge	Specification Reference	Chapter	Check
Algebraic Methods	I can cancel factors in algebraic fractions	2.6	7.1	
	I can divide a polynomial by a linear expression and can use the factor theorem to factorise a cubic expression	2.6	7.2-3	
	I can construct Mathematical Proofs using algebra and can use proof by exhaustion and disproof by counter-example	1.1	7.4-5	
Binomial Expansion	I can use Pascal's Triangle to identify binomial coefficients and use them to expand simple binomial expressions	4.1	8.1	
	I understand and can use combinations and Factorial Notation	4.1	8.2	
	I understand and can use the The Binomial Expansion to expand brackets	4.1	8.3	
	I can find individual coefficients when Solving Binomial Problems	4.1	8.4	
	I can make approximations using Binomial Estimation	4.1	8.5	
Trigonometric Ratios	I understand and can use the definitions of sine cosine and tangent for all arguments. I can use The Cosine and Sine Rules	5.1	9.1-2	
	I understand how to use the sine and Cosine rules to solve problems involving Areas of Triangles including the ambiguous case of the sine rule	5.1	9.3-4	
	I understand the Graphs of Sine, Cosine and Tangent and can use their graphs symmetries and periodicity to apply transformations to the Trigonometric Curves	5.3	9.5-6	

YEAR 12 Mathematics		CYCLE 2: Statistics Unit 2		
	Knowledge		Chapter	Check
Measures of Location & Spread	I can calculate and interpret Measures of Central Tendency & Other Measures of Location	2.3	2.1-2	
	I can calculate and interpret Measures of Spread such as range Interquartile range and Interpercentile range	2.3	2.3	
	I can calculate Variance & Standard Deviation including from summary statistics	2.3	2.4	
	I can understand and use Coding	2.3	2.5	
Data Representation	I can recognise and interpret outliers data sets and draw and interpret Box Plots	2.1/4	3.1-2	
	I can draw and interpret diagrams for single variable data, such as: Cumulative Frequency Curves & Histograms	2.1	3.3-4	
	I can Compare Data including measures of location and spread	2.1/4	3.5	
Correlation	I can draw and interpret scatter diagrams for bivariate data. I can interpret correlation and understand that it does not imply causation.	2.2	4.1	
	I can interpret the coefficients of a regression line equation for bivariate data and understand you can use it to make predictions.	2.2	4.2	
YEAR 12 Mathematics		CYCLE 2: Mechanics Unit 6		
Modelling in Mechanics	I understand how the concept of a mathematical model applies to mechanics	6.1	8.1	
	I understand how to apply some common assumptions to mechanical models	6.1	8.2	
	I understand and can use the fundamental Quantities & Units and derived quantities such as velocity, acceleration, force and weight.	6.1	8.3	
	I understand the difference between scalar and vector quantities	6.1	8.4	