



# The Grey Coat Hospital

## Key Stage Four Curriculum Plan - *Subject: Mathematics A Level*

### Year 12

Half Term (HT)	Topic Area / Focus All topics can be found in the textbooks provided	
	Pure	Applied
HT1	Algebraic expressions Quadratics Equations and inequalities Logarithms	Mathematical Modelling Kinematics Statistical Sampling
HT2	Graphs and transformations Straight line graphs Circles Binomial Distribution	Data interpretation Data representation Probability
HT3	Differentiation Algebraic methods	Forces
HT4	Integration Trigonometry	Statistical distributions Hypothesis testing
HT5	Vectors Exponentials and logs	Variable acceleration
HT6	Chain, Product and Quotient Rule (Year 13 content) Algebraic Methods (Year 13 content)	PMCC

### Year 13

Half Term (HT)	Topic Area / Focus All topics can be found in the textbooks provided	
	Pure	Applied
HT1	Radians Sequences Functions and graphs Trigonometric functions	Forces and friction Probability
HT2	Binomial expansion Trigonometry and compound angles	Kinematics and projectiles Normal distribution part 1



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	Differentiation Parametric equations	
HT3	Integration Differential Equations	Normal distribution part 2
HT4	Vectors Proof	Normal distribution part 3
HT5	Numerical Methods	Moments and statics of rigid bodies
HT6	No lessons	No lessons