

							Function
	Statistics and Mechanics	C1 Regression, correlation and hypothesis testing C2 Conditional probability		Set after every lesson. Assessed set every 3 weeks.	Textbooks, Dr Frost powerpoints, bank of assessed HL Qs.	1.1 Exponential models 1.2 Measuring correlation 1.3 Hypothesis testing for zero correlation 2.1 Set notation 2.2 Conditional probability 2.3 Conditional probabilities in Venn diagrams 2.4 Probability formulae 2.5 Tree diagrams	Reading strategy: Go through key words and annotate worded problems. Key words: Regression Correlation Conditional
Autumn 2	Pure	C7 Trigonometry and modelling C8 Parametric equations C9 Differentiation (part 1)	Test: Chapters 7 & 8	Set after every lesson. Assessed set every 2 weeks.	Textbooks, Dr Frost powerpoints, bank of assessed HL Qs.	7.1 Addition formulae 7.2 Using the addition formulae 7.3 Double- angle formulae 7.4 Solving trigonometric equations 7.5 Simplifying $a\cos x \pm b\sin x$ 7.6 Proving trigonometric identities 7.7 Modelling with trigonometric functions 8.1 Parametric equations 8.2 Using trigonometric identities 8.3 Curve sketching 8.4 Points of intersection 8.5 Modelling with parametric equations 9.1 Differentiating $\sin x$ and $\cos x$	Reading strategy: Go through key words and annotate worded problems. Key words: Parametric Intersection Product

						10.3 The Newton- Raphson method 10.4 Applications to modelling	Application Implicit
	Statistics and Mechanics	C5 Forces and friction C6 Projectiles	Test: Chapters 4 & 5	Set after every lesson. Assessed set every 3 weeks.	Textbooks, Dr Frost powerpoints, bank of assessed HL Qs.	5.1 Resolving forces 5.2 Inclined planes 5.3 Friction 6.1 Horizontal projection 6.2 Horizontal and vertical components 6.3 Projection at any angle 6.4 Projectile motion formulae	Reading strategy: Go through key words and annotate worded problems. Key words: Resolving Inclined Friction Projection
Spring 2	Pure	C11 Integration C12 Vectors	Test: Chapters 11 & 12	Set after every lesson. Assessed set every 2 weeks.	Textbooks, Dr Frost powerpoints, bank of assessed HL Qs.	11.1 Integrating standard functions 11.2 Integrating $f(ax + b)$ 11.3 Using trigonometric identities 11.4 Reverse chain rule 11.5 Integration by substitution 11.6 Integration by parts 11.7 Partial fractions 11.8 Finding areas 11.9 The trapezium rule 11.10 Solving differential equations 11.11 Modelling with differential equations 12.1 3D coordinates 12.2 Vectors in 3D 12.3 Solving geometric problems 12.4 Application to mechanics	Reading strategy: Go through key words and annotate worded problems. Key words: Reverse Trapezium Coordinates

	Statistics and Mechanics	C7 Applications of forces C8 Further kinematics	Test: Chapters 6 & 7 Test: Chapter 8	Set after every lesson. Assessed set every 3 weeks.	Textbooks, Dr Frost powerpoints, bank of assessed HL Qs.	7.1 Static particles 7.2 Modelling with statics 7.3 Friction and static particles 7.4 Static rigid bodies 7.5 Dynamics and inclined planes 7.6 Connected particles 8.1 Vectors in kinematics 8.2 Vector methods with projectiles 8.3 Variable acceleration in one dimension 8.4 Differentiating vectors 8.5 Integrating vectors	Reading strategy: Go through key words and annotate worded problems. Key words: Static Friction Kinematics
Summer 1	Pure	Revision	Maths dept PPEs (full papers)	Set after every lesson. Assessed set every 2 weeks, past papers	Textbooks, Dr Frost powerpoints, bank of assessed HL Qs.		
	Statistics and Mechanics	Revision	Maths dept PPEs (full papers)	Set after every lesson. Assessed set every 3 weeks, past papers	Textbooks, Dr Frost powerpoints, bank of assessed HL Qs.		