WK	TOPIC	DETAIL			PS
09/06/25	**Ch1 Complex Numbers** **Ch2.1-2.3 Argand diagrams**	Introduce complex numbers Add/ subtract/ multiply/ divide complex numbers. Square and square root. Complex solutions of equations Draw mod-arg diagrams & write in mod-arg form			Set 1:
16/06/25	**Ch3 Sequences & Series** **Ch4 Roots of polynomials**	Know and use formula for sum of r, r^2 and r^3 Use formula for roots of quadratics, cubics and quartics			Set: 2 Due: 1
23/06/25	**Ch4 Roots of polynomials**	Complex roots of polynomials Linear transformation of roots Introduce and matrix arithmetic			Set: 3 Due: 2
30/06/25	**Ch6 Matrices**	Introduce and matrix arithmetic Determinants, Inverses			Set: 4 Due: 3
07/07/25	**Ch6 Matrices**	Systems of equations involving matrices			Due: 4
SUMMER HOLIDAYS – summer work					
08/09/25	**Ch8 Proof by induction**	Proving series, matrix and divisibility results using proof by induction			Set: 5
15/09/25	**Ch2.4-2.5 Locus in complex plane** <mark>CwC Test THURS</mark>	Finding regions defined by locus inequalities and points defined by the intersection of multiple loci			Set: 6 Due: 5
22/09/25	**Ch 7 Linear transformations**	Describing graphical transformations using matrices Geometric applications of systems of simultaneous equations will also need to be covered.			Set: 7 Due: 6
29/09/25	**Ch9 Vectors**	Vectors - Lines			Set: 8 Due: 7
06/10/25	**Ch9 Vectors** <mark>Test 1 MON</mark>	Vectors - planes			Set: 9 Due: 8
13/10/25	**Systems of simultaneous equations: geometrical results**	Review matrices and systems of equations Tie into planes and geometrical results, order for establishing what you have.			Set: 10 Due: 9
20/10/25	**Ch5 Volumes of revolution**	Volumes of revolution of graphs rotated around the x and y axes			Set:11 Due:10
03/11/25	**FP1** **Ch1 Vectors**	Vector product Areas	**D1** **Ch1 Algorithms**	Running algorithms and recording outputs Bubble sort, Quick sort, Bin-packing algorithms Order of an algorithm	Due:11 Set:12
10/11/25	**Ch1 Vectors** <mark>CP1 Mock this week</mark>	Scalar triple product	**Ch1 Algorithms** **Ch2 Graph Theory** <mark>CP1 Mock this week</mark>	Intro to graph theory Representing graphs & networks using matrices	
17/11/25	**Ch4 Inequalities**	Algebraic Methods Graphs	**Ch3 Algorithms on graphs**	Prims & Kruskals Prims on a matrix	
24/11/25	**Ch2 Conic Sections**	Parametrics Parabolas: equations, tangents & normals	**Ch3 Algorithms on graphs**	Dijkstras Algorithm	
01/12/25	**Ch2 Conic Sections**	Rect. Hyperbolas Tangents and Normals	**Ch4 Route insp'n**	Route Inspection Algorithm	

		Loci	Ch6 Linear programming	Forming constraints Solving problems graphically	
08/12/25	**Ch5 *t*-formulae** <mark>**Test 3 THURS**</mark>	Deriving formulae Practice	<mark>**Test 3 THURS**</mark> **Ch6 Linear programming**	Solving problems graphically inc obj line & vertex testing methods & integer solutions	
15/12/25	**Go through test & Christmas activities**				
XMAS HOLIDAYS					
05/01/26	**Ch8 – Numerical Methods**	First order formulae	**Ch8 Critical path Analysis**	Precedence tables and activity networks Dummy activities	
12/01/26	**Ch8 Numerical Methods**	Second order formulae	**Ch8 Critical path Analysis**	Forward and reverse passes, float and Gantt charts	
19/01/26	**FS1** **Ch1 DRVs**	Expectation and variance of DRVs and functions of X Problem solving involving DRVs	**FM1** **Ch1 Momentum & Impulse**	Momentum and impulse formulae Conservation of momentum formula	
02/02/26	**Ch2 Poisson distributions**	Mean, variance and modelling with Poisson distributions	**Ch2 Work, Energy and Power**	Formula for KE, GPE & WD Conservation of energy problems Power formula Conservation of energy problems	
09/02/26	**2A mock week**				
HALF TERM					
23/02/26	**Ch4 Hypothesis testing**	Using Poisson to approximate a binomial distribution Hypothesis testing for a Poisson distribution	**Ch4 Elastic collisions in 1D** <mark>**FP1/D1 test?**</mark>	Newton's law of restitution	
02/03/26	**Ch6 Chi squared tests** <mark>**FP1/D1 test?**</mark>	Introducing goodness of fit, degrees of freedom and the Chi-squared test	**Ch4 Elastic collisions in 1D**	Multiple collisions	
09/03/26	**Ch6 Chi squared tests**	Hypothesis testing with the Chi-squared test	**Ch4 Elastic collisions in 1D**	Loss of Kinetic energy	
16/03/26	<mark>**CP1 Mock?**</mark>				
23/03/26					
EASTER HOLIDAYS					
14/04/26	<mark>**FM1 test?**</mark>		<mark>**FS1 Test?**</mark>		
20/04/26					
27/04/16					
04/05/26					
11/05/26	**Exams this week** Core Pure Monday PM (TBC), Options Friday PM (TBC)				
18/05/26	-	-	-	-	-
HALF TERM					