Further Mathematics Timetable Year 12 2022

Wk	Date	А	В			
Α	07/09/22	1. Imaginary and Complex Numbers Ex 1A/B	1. Intro to Matrices Ex 6A			
В	12/09/22	2. Multiplying Complex Numbers IC 3. Complex Conjugation 1D	2. Matrix Multiplication Ex 6B 3. Determinants Ex 6C			
Α	19/09/22	1 Deste al O statis De stiene 1	1. Inverse of 2 by 2 matrices Ex 6D			
		 Roots of Quadratic Equations 1E Solving Quartic and Cubic Equations Ex1F 	 Inverse of 3 by 3 matrices Ex 6E Using matrices to colve systems of equations and find nature of interpretion of 2 			
В	26/09/22	3. Mixed Exercise 1	5. Using matrices to solve systems of equations and find nature of intersection of 5 planes Ex 6F			
		4. Argand Diagrams Exercise 2A	4. Mixed Exercise 6			
Α	03/10/22	1. Modulus & Argument Ex 2B	1. Mixed Exercise 6			
-	10/10/20	2. Modulus Argument Form ex 2C	2. Linear Transformations in 2 D Ex 7A			
В	10/10/22	 Modulus Argument Form ex 2D Loci in the Argand Diagram ex 2E 	3. Reflections, rotations and invariance in 2D Ex 7B 4. Enlargements and Stretches in 2D Ex 7C			
		Looi in die l'ingune Diagram ex 20				
А	17/10/22	1. Loci in the Argand Diagram ex 2E	1. Combining Transformations Ex 7D			
11	11/10/22	2. Regions in the Argand Diagram ex 2F	2. Linear Transformations in 3D Ex 7E			
	Half Term					
В	31/10/22	1. Regions in the Argand Diagram ex 2F	1. Inverse of a Linear Transformation Ex 7F			
	07/11/00	2. Mixed Exercise 2 2. Boots of a quadratic equation on 4A	2. Mixed Exercise 7 3. Summation of Natural Numbers Ex 3A Old b a g. O2 3 7 8			
A	0//11/22	4. Roots of a cubic equation ex 4B	4. Summation of Natural Numbers Ex 3A grd, 5,e,g, Q2, 5, 7, 8			
			1. Summation of Squares and Cubes Ex 3B Q 1, 2, 3, 5			
В	14/11/22	 Roots of a quartic equation ex 4C Expressions related to roots of polynomials Ex 4D 	2. Summation of Squares and cubes part 2 Ex 3B Q 6, 7, 8, 9, 11, 13, 14			
		 2. Expressions related to roots of polynomials Ex 4D 3. Linear transformations of roots Ex 4E 	3. Mixed Exercise 3			
A	21/11/22	4. Mixed Exercise 4	4. Revision for test			
В	28/11/22					
		 Kevision for test Revision for test 	1. Kevision for test 2. Test			
А	05/12/22	3. Introduce integration	3. Proof by induction part 1 Ex 8A			
11	00/12/22	4. Volumes of revolution around x-axis Ex 5A	4. Induction for summation proof part 2 Ex 8A			
<u> </u>						
		1 Volumes of revolution around v –axis Fx 5B	1 Induction proof for matrices Fx 8C			
В	12/12/22	2. Adding and subtracting volumes Ex 5C	2. Induction proof for divisibility part 1 Ex 8B			
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Α	03/01/23	1. Modelling with volumes of revolution Ex 5D	1. Induction proof for divisibility part 2 Ex 8B			
		 Mixed Exercise 5 Parametric equations Ex 2A 	2. Mixed Exercise 8			
В	09/01/23	4. The Parabola Ex 2B/ 2C	3. Prior knowledge and Pure 1 Ch 11 4. Vector equations of straight lines part 1 Ex 9A			
•	16/01/22		4. Vector equations of straight lines part I LX JA			
A	16/01/23	1. Rectangular hyperbolas Ex 2D 2. Tongente and Namuela to Banametrica Economics 2E	1. Vector equations of straight lines part 2 Ex 9A			
B	23/01/23	 Tangents and Normals to Parametrics Exercise 2E Tangents and Normals to Parametrics Exercise 2E 	2. Vector equations of straight lines part 3 Ex 9A 3. Equations of a plane part 1 Ex 9B			
D	25/01/25	4. Loci Ex 2G	4. Equations of a plane part 2 Ex 9B			
А	30/01/23	1. Mixed Exercise 2	1. Dot Product Ex 9C			
		 Mixed Exercise 2 Algebraic Methods Fx 4A 	2. Angle between a line and a plane Ex 9D Q1a, 2 a, b, Q3 a, b , Q5 , 7, 9 – 14			
В	06/02/23	 4. Using Graphs to solve inequalities Ex 4B 	3. Intersection of two lines and their nature Ex 9E Q 2, 3, 6, 7, 8, 9			
			4. Intersection of fines Ex 9E			
Half Term						
Δ	20/02/22	1. Modulus Inequalities Ex 4C	1. Shortest distance between point and a line Ex 9F Q4, 7, 9, 11 2. Distance between 2 lines and a point and a plane Ex 0F Q1, 2.5a, 6, 8, 12			
A	20/02/23	2. Modulus Inequalities Ex 4C	2. Distance between 2 lines and a point and a plane Ex 9F Q1, 2 5a, 0, 8, 12			
В	27/02/23	1. Mixed Exercise 4	1. Equations of planes through 3 given points			
	0.610.010.0	2. Mixed Exercise 4	2. Mixed Exercise 9			
A	06/03/23	4. Complex Numbers: Exponential Form Ex 1A	4. Method of differences Ex 2A 4,7,10,11			
В	13/03/23	1. Multiplying and dividing Ex 1B	1 Mathad of differences Fy 24 2 9 12 12			
		2. Multiplying and dividing Ex 1B	2. Vector product Ex 1A			
Α	20/03/23	 De Moivre's theorem Ex1C De Moivre's theorem Ex1C 	3. Vector product Ex 1A			
			4. Finding areas Ex 1B			
В	27/03/23	1. Trig identities Ex 1D	1. Triple scalar product Ex 1C			
		2. Trig identities Ex 1D	2. Straight lines Ex 1D			
Easter						
Α	17/04/23	1. Revision	1. Revision			
р	24/04/22	2. Revision 3. Mock Exams	2. Revision 3. Mock exams			
D	24/04/23	4. Mock Exams	4. Mock exams			
Α	02/05/23	1. Sum of series Ex 1E	1. Geometrical problems Ex 1E			
		2. Sum of series Ex 1E	2. Geometrical problems Ex 1E			

В	08/05/23	 Nth roots of a complex number Ex 1F Nth roots of a complex number Ex 1F 	3. Mixed Ex 1 4. Mixed Ex 1		
A	15/05/23 22/05/23	 Solving geometric problems Ex 1G Solving geometric problems Ex 1G Mixed Exercise 1 Mixed Exercise 1 	 Go over paper Mixed Ex 1 General vectors work Integration Pure 2 Ch 11 Introduce the chain rule and product rule in differentiation 		
Half Term					
A	05/06/23	 Mixed Exercise 1 Mixed Exercise 1 	 Standard functions Ex 11A Integrating f(ax + b) Ex B Integrating using trig functions Ex 11C 		
В	12/06/23	 Trigonometry Pure 2 Ch 7 Addition formula Ex 7A Using the addition angle formula Ex 7B 	 A. Reverse chain rule Ex 11D 		
A	19/06/23	 Double-angle formula Ex 7C Solving trig equations Ex 7D 	 Integration by substitution Ex 11E Integration by substitution Ex 11E Integration by parts Ex 11E 		
В	28/06/23	3. Harmonic form Ex 7E 4. Proving trig identities Ex 7F	4. Integration by parts Ex 11F		
A	03/07/23	 Modelling with trig identities Ex 7G Mixed Exercise 7 	 Partial fractions Ex 11G Differential equations Ex 11J Mirred Ex 11 		
В	17/07/23	3. Mixed Exercise 7	5. WIXEU EX 11		