l	U nit	Title	Estimat ed hours	Date	
FP2 – Term 1					
1 1 2	-	Solving Inequalities	4	HT1 week 1-2	
		By algebraic manipulation			
		Graphically including modulus			
2		Series	1	HT1 week 3	
	.1	Using the method of differences to sum simple finite series.			
3	.1	Complex numbers	5	HT1 week 3-5	
		Modulus-argument form			
	3	Euler's relation			
		Multiplying and dividing complex numbers			
	.45	De Moivre's theorem and its application to solving trig identities.			
	.6	Mock Exam			
		Using De Moivre's theorem to solve the nth roots of a complex number.			
3	.78 .9	Further complex numbers	4	HT2 week 1-2	
		Argand diagrams – locus and regions			
		Transformations to map points from the z plane to the w plane			
4	.1 .23 .4	First order differential equations	4	HT2 week 3-4	
		First order with separable variables and sketching solution curves.			
		Solving exact equations and using an integrating factor.			
		Using a given substitution.			
5	.123 .23	Second order differential equations	2	HT2 week 5	
		Finding the general solution to linear homogeneous eqns using an auxiliary equation.			
	.4	Mock exam	2	HT2 week 6	
		General solutions to non homogeneous equations	2	HT2 week 7	
			28 hours		
		Term 2			
5	.5	Further second order differential equations	4	HT3 week 1-2	
	.6	Using boundary conditions to find specific solutions			

	Using a given substitution.		
6 .1	Maclaurin and Taylor series	4	HT3 week 3-4
.23	Finding and using higher derivatives of functions		
	Maclaurin's expansion		
.5	Taylor's expansions		
	Mock Exam	2	HT3 week 5
	Using the Taylor series method to solve differential equations	2	HT3 week 6
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	Polar coordinates	6	HT4 week 1-3
7	Polar and Cartesian coordinates		
.1	Polar and Cartesian equations of curves		
.2	Curve sketching		
4			
.4	Areas using polar coordinates		
.4	Areas using polar coordinates Tangents parallel and perpendicular to the initial line		
.4 .5 3 .4	Areas using polar coordinates Tangents parallel and perpendicular to the initial line Mock Exam	2	HT4 week 4

22 hours