

Chapter 1: Complex numbers: Chapter 1: Complex numbers

FM1 I can express a complex number in exponential form			
FM2 I can multiply and divide complex numbers in exponential form			
FM3 I understand de Moivre's theorem			
FM4 I can use de Moivre's theorem to derive trigonometric identities			
FM5 I can use de Moivre's theorem to find sums of series			
FM6 I can solve completely equations of the form $z^n = 1$.			
FM7 I can use complex roots of unity to solve geometric problems.			

Chapter 2: Series: Chapter 2: Series

FM8 I can understand and use the method of differences to sum finite series			
FM9 I can find and use higher derivatives of functions			
FM10 I know how to express functions as an infinite series in ascending powers using Maclaurin series expansion			
FM11 I am able to find the series expansions of compound functions			

Chapter 3: Methods in calculus: Chapter 3: Methods in calculus

FM12 I can evaluate improper integrals			
FM13 I can understand and evaluate the mean value of a function			
FM14 I can integrate rational functions using trigonometric substitutions			
FM15 I can integrate using partial fractions			

Chapter 4: Volumes of revolution: Chapter 4: Volumes of revolution

FM16 I can find volumes of revolution around the x-axis			
FM17 I can find volumes of revolution around the y-axis			
FM18 I can find volumes of revolution for curves defined parametrically			
FM19 I can model real-life applications of volumes of revolution			

Chapter 5: Polar coordinates: Chapter 5: Polar coordinates

FM20 I can understand and use polar coordinates			
FM21 I can convert between polar and Cartesian coordinates			
FM22 I can sketch curves with r given as a function of			
FM23 I can find the area enclosed by a polar curve			
FM24 I can find tangents parallel to, or at right angles to, the initial line			

Chapter 6: Hyperbolic functions: Chapter 6: Hyperbolic functions

FM25 I can understand the definitions of hyperbolic functions			
FM26 I can sketch the graphs of hyperbolic functions			
FM27 I can understand and use the inverse hyperbolic functions			
FM28 I can prove identities and solve equations using hyperbolic functions			
FM29 I can differentiate and integrate hyperbolic functions			

Chapter 7: Methods in differential equations: Chapter 7: Methods in differential equations

FM30 I can solve first-order differential equations using an integrating factor			
FM31 I can solve second order homogeneous differential equations using the auxiliary equation			
FM32 I can solve second-order non-homogeneous differential equations using the complementary function and the particular integral			
FM33 I can find particular solutions to differential equations using given boundary conditions			

Chapter 8: Modelling with differential equations: Chapter 8: Modelling with differential equations

FM34 I can model real-life situations with first-order differential equations			
FM35 I can use differential equations to model simple harmonic motion			
FM36 I can model damped and forced oscillations using differential equations			
FM37 I can model real-life situations using coupled first-order differential equations			

Date:

Student Reflection:	
Teacher Comment:	