








MATHEMATICS GRADE 12: 2014

TOPIC	ASSESSMENT STANDARDS	PORTFOLIO ASSESSMENT TASKS	
PHASE 1 (1 November 2013 – 28 March 2014)			
Statistics	Scatterplots	 Task 1 Control Test Week 3 – 7 December 2013  Task 2 Assignment : (school based) <u>Scheduled: Week 11– 14 Feb</u>  Task 3 March Examinations: <u>Scheduled for 28 Feb – 11 March</u>	
	Regression and Correlation		
Probability	Dependent and independent events		
	Venn Diagrams and other techniques		
	Fundamental counting principle		
Number patterns	Arithmetic and Geometric Sequences and Series		
	Interpret sigma notation		
	Prove and use the sum formulae of series		
Trigonometry	Compound Angle formulae		
	Identities and equations		
	<i>Solve unseen problems</i>		
PHASE 2 (8 April 2014 – 28 June 2013)			
Co-ordinate Geometry	Equation of circle (any centre)	 Task 4 Paper 2 assignment: due date 5 May  Task 5	
	Equations of tangents to circles		
Polynomials	Remainder and Factor theorem		
Calculus	Calculus: Limits, first principles; rules; tangent equations		
	Sketch graphs of polynomials		
	Problems: max/min and rate of change		
Euclidean Geometry	Proportional Intercept theorems	Mid-Year Examinations: <u>Scheduled for 30 May – 10 June</u> P1 : Probability, Number patterns, Polynomials, Calculus P2 : Statistics, Trigonometry, Co-ordinate Geometry, Euclidean Geometry	
	Similar triangles		
	Proof of Pythagoras' Theorem		
	<i>Solve unseen problems</i>		
PHASE 3 (15 July 2014 – 20 October 2014)			
Trigonometry	Solution of problems in 2 and 3 dimensions	 Task 6 Assignment: Paper 1 topics (Consolidation for Trial Examinations) <u>Scheduled: Week 11 – 15 August</u>  Task 7 Trial Examinations: <u>Scheduled for 29 Aug – 12 Sept</u> P1 : Probability, Number patterns, Polynomials, Calculus; Functions and Logs, Finance P2: Statistics, Trigonometry, Co-ordinate Geometry, Euclidean Geometry	
	Functions		
Functions	Definition		
	Inverses of functions		
	Logarithmic function		
Financial Maths	Calculation of time period		
	Future value annuity and present value annuity formulae		
	<i>Solve unseen problems</i>		
Consolidation	Revision of all learning outcomes & assessment standards		