MATHEMATICS - GRADE 11 2024

TOPIC	ASSESSMENT STANDARDS	PORTFOLIO ASSESSMENT TASKS
PHASE 1 (13 November 2023 – 8 March 2024)		
Statistics	Measurement	Task 1: Investigation: Number patterns 5 – 9 Feb Task 2: Control Test: Stats & Algebraic Equations 21 Feb – 5 Mar
	Graphical representation: Ogive curves	
	Mean and Standard deviation	
Algebra	Solve quadratic equations and Inequalities	
	Algebraic expressions: completing the square	
	Solve equations in 2 unknowns, one quadratic	
	Nature of Roots	
Number patterns	Linear and quadratic number patterns	
Analytical Geometry	Parallel, perpendicular, inclination	Task 3: Assignment: Analytical Geom 11–15 Mar
	Equation of a straight line	
Functions	Quadratic Function: $f(x) = ax^2 + bx + c$	11 13 Willi
PHASE 2 (11 March 2024 – 31 May 2024)		
Functions	Investigate characteristics of the functions:	Task 4:
	$f(x) = a(x+p)^2 + q$ and $f(x) = \frac{a}{x+p} + q$	Control Test A: Functions 22 – 26 Apr Control Test B: Trigonometry 13 – 17 May Task 5: June Exams 13 – 31 May
	Average gradient between points on a curve	
Algebra: Number and Exponent	Exponents, Surds	
	Characteristics of the function $f(x) = ab^{x+p} + q$	
Trigonometry	CAST, Reductions	
	Identities quotient and squares formulae	13 - 31 Way
PHASE 3 (3 June 2024 – 8 November 2024)		
Trigonometry	Trigonometric equations and general solution	Task 6
Trig functions	Functions: $y = \sin k(x + p)$; $y = \cos k(x + p)$ and $y = \tan k(x + p)$	Control Test A: Trig functions
Finance	Simple and compound decay	— 5 − 8 Aug Control Test B:
	Rate and periods in compound growth and decay	Finance 12 – 16 Aug
Euclidean Geometry	Circle theorems	Task 7: Control Test: Geometry: Circles 21 Aug – 3 September Task 8: October Exam 21 Oct – 8 Nov
	Solving riders	
Probability	Revision of Grade 10 rules	
	Venn diagrams and Tree diagrams	
Trigonometry	Sine, cosine and area rules	
	Solution of right-angled and oblique triangles	