

MATHEMATICS - GRADE 10 2024

TOPIC	ASSESSMENT STANDARDS	PORTFOLIO ASSESSMENT TASKS
PHASE 1 (17 January 2024 – 20 March 2024)		
Algebra	Products and factors	Task 1: Investigation: Number patterns 12 – 16 Feb Task 2: Control Test: Products & Factors; Alg frac&Equations 21 Feb – 5 March
	Algebraic fractions	
	Equations, inequalities and simultaneous equations	
	Solve equations in two unknowns (both linear)	
Number patterns	Linear number patterns	
Euclidean Geometry	Revision of Grade 9 Geometry Quadrilaterals(Parallelogram, Rhombus, Rectangle, Square, Kite, Trapezium)	
PHASE 2 (3 April 2024 – 14 June 2024)		
Geometry	Midpoint Theorem	Task 3: Assignment: Euclidean Geometry 3 – 5 April
Analytical Geometry	Distance, midpoint, gradient	
Functions	Investigate characteristics of the straight line, parabola and hyperbola $y = ax + q$, $y = ax^2 + q$ and $y = \frac{a}{x} + q$.	Task 4: Control Test A: Analytical Geom 22 – 26 April Control Test B: Functions 13 – 17 May
Algebra	Exponents and exponential equations	
		Task 5: June Exams 27 May – 14 June
PHASE 3 (9 July 2024 – 8 November 2024)		
Algebra	Exponential Function: $y = a.b^x + q$	Task 6: Control Test: Gen Trig & Trig functions 21 Aug – 3 Sept
Trigonometry	Definition of trigonometric ratios	
	Solution of problems in 2-dimensions	
	Functions : $y = \sin kx + q$; $y = \cos kx + q$ and $y = \tan kx + q$	
Financial Mathematics	Simple and compound growth	Task 7: Control Test A: Finance Control Test B: Probab. 9 – 13 Sept
Probability	Relative and theoretical probability	
	Venn diagrams and Tree diagrams to solve problems	
Statistics	Measurements of central tendency and ranges	Task 8: October Exam 21 Oct – 8 Nov
	Interpretation of data	
Measurement	Surface area and volume of solids	