

## MATHEMATICS - GRADE 10 2020

TOPIC	ASSESSMENT STANDARDS	PORTFOLIO ASSESSMENT TASKS	
<b>PHASE 1 (5 November 2019 – 20 March 2020)</b>			
<b>Financial Mathematics</b>	Budgeting, interest, exchange rates, commission	☞ <b>Task 1</b> Dec Controlled test Dec 2019	
<b>Statistics</b>	Measurements of central tendency and ranges Interpretation of data		
<b>Algebra</b>	Products and factors	☞ <b>Task 2</b> Investigation: Number patterns 3 – 7 Feb	
	Algebraic fractions		
	Equations and inequalities		
	Solve equations in two unknowns (both linear)		
<b>Number patterns</b>	Linear number patterns	☞ <b>Task 3</b> Controlled Test 9 – 20 March	
<b>Euclidean Geometry</b>	Quadrilaterals		
<b>PHASE 2 (31 March 2020 – 12 June 2020)</b>			
<b>Analytical Geometry</b>	Distance, midpoint, gradient	☞ <b>Task 4</b> Assignment: Mathematical modelling 20 – 24 April	
<b>Functions</b>	Investigate characteristics of the straight line, parabola and hyperbola $y = ax + q$ , $y = ax^2 + q$ and $y = \frac{a}{x} + q$ .		
<b>Euclidean Geometry</b>	Midpoint theorem and applications		
<b>Algebra</b>	Exponents and exponential equations		☞ <b>Task 5</b> June Exams 1 – 12 June
	Placement of surds		
<b>Functions</b>	Investigate characteristics of the exponential function $y = a.b^x + q$		
<b>PHASE 3 (7 July 2020 – 30 October 2020)</b>			
<b>Trigonometry</b>	Definition of trigonometric ratios	☞ <b>Task 6</b> Assignment: Trig 24 – 28 Aug	
	Solution of problems in 2-dimensions		
	Functions : $y = \sin kx + q$ ; $y = \cos kx + q$ and $y = \tan kx + q$	☞ <b>Task 7</b>	
<b>Financial Mathematics</b>	Simple and compound growth	Controlled Test 7 – 11 Sept	
<b>Probability</b>	Relative and theoretical probability	☞ <b>Task 8</b> October Exam 19 – 30 Oct	
	Venn diagrams and Tree diagrams to solve problems		
<b>Measurement</b>	Surface area and volume of solids		