MATHEMATICS - GRADE 8 2024

TOPIC	ASSESSMENT STANDARDS	PORTFOLIO ASSESSMENT TASKS
PHASE 1 (17 January 2024 – 20 March 2024)		
Numbers, Operations and relationships	BODMAS, Whole numbers, Multiples and factors	**Task 1:** Assignment – Fractions, HCF, LCM, integers, number system 5 – 9 Feb
	Rounding, HCF, LCM, squares, cubes, roots	
	Additive and Multiplicative inverses, integers and fractions	
Algebra	Introduction	
Techniques, Strategies in calculations	Exponents: laws, simple calculations, multiple operations	**Task 2:** March control test: 21 Feb – 5 March
	Scientific notation	
	Problem solving	
PHASE 2 (3 April 2024 – 14 June 2024)		
Algebraic Operations	Classification of like and unlike terms, algebraic language	**Task 3:** Investigation – Functions & relations 6 – 10 May
	Addition and subtraction	
	Multiplying and dividing by monomials	
	Simplification with brackets	
	Expressions: simplification and combined operations	
Substitution and Equations	Solving by: inspection, trial and improvement, algebra, checking roots by substitution	
	Calculator usage and problem solving	**Task 4:** June Exams: 3 – 14 June
Functions/Relations and Number Patterns	Investigate patterns and functions in Algebra	
	Recording and representation: flow charts and tables	
	Solution as a rule or formula and problem solving	
PHASE 3 (9 July 2024 – 22 November 2024)		
Space and shape and Introduction to Geometry	Intersecting, parallel and perpendicular lines	
	Triangles: types and side and angle relationships. Similar and congruent shapes	
	Theorem of Pythagoras inc problem solving	
	Quadrilaterals, other polygons and circles	
	Problem Solving	**Task 5:** Project – Area, Perimeter & Pythag : 12 – 16 Aug
	Area and Perimeter of 2D shapes. Calculator usage and problem solving. Unit conversions	
	Surface Area and Volume – simple and compound shapes.	
Data Handling	Collection, Central tendencies, graphical representations and analysis	**Task 6:** Controlled Test 21 Aug – 3 Sep
Graphs	Drawing graphs	
Graphs	Recognising linear vs non-linear and discrete vs continuous	**Task 7:** Year-end Exam 11 – 22 Nov
	Use of terms: maximum, minimum, increasing, decreasing	
Finance	Profit and loss, simple interest, loans, hire purchase. Problem solving	
Ratio and Rate	Simplify, increase, decrease, share in a ratio	
Consolidation	Revision of all assessment standards	