









MATHEMATICS: GRADE 8 2014

TOPIC	2014 WORK SCHEME	PORTFOLIO ASSESSMENT TASKS
PHASE 1 (15 January 2014 – 28 March 2014)		
Numbers, Operations and Relationships	Multiples and Factors	 Task 1 Assignment 1: 17 – 21 February
	Integers	
	Fractions	
	Additive and Multiplicative Inverses	
Techniques, Strategies in Calculations	Exponents (laws, simple calculations, scientific notation)	 Task 2 March control test: 24 March – 28 March
	Calculator Usage , Rounding, Estimation	
	Multiple Operations	
Patterns , Functions , Algebra	Classification of Like and Unlike	
	Addition and Subtraction	
PHASE 2 (7 April 2014 – 27 June 2014)		
Patterns, Functions, Algebra	Multiplying and dividing monomials	 Task 3 Assignment on Patterns, Functions and Algebra: 19 – 23 May.
	Simplification with brackets	
	Expressions- simplification and combined operations	
Equations	Solving by : Inspection, Trial and improvement and Algebraic	
	Checking roots by substitution	
Space and Shape: Geometry	Intersecting, Parallel and Perpendicular lines	 Task 4 June Exam: 17 – 27 June
	Constructions (protractor techniques and constructing lines and angles)	
	Triangles (Types and side and angle relationships)	
PHASE 3 (21 July 2014 – 31 October 2014)		
Space and Shape: Lengths, Perimeter and Area	Theorem of Pythagoras	 Task 5 Assignment data handling: 11 – 15 August
	Triangles	
	Quadrilaterals and other Polygons	
	Circles	
	Estimation and calculators	
Graphs	Relevant unit conversions	 Task 6 Control test on Phase 3 work: Scheduled for week of 29 Sept – 3 Oct.
	Drawing graphs	
	Recognising Linear vs. non-linear and discrete vs. continuous	
	Use of terms: maximum, minimum, increasing, decreasing	
Trans-formations	Defining translation, rotation, reflection	
	Using with symmetry to investigate geometry figures	
Financial Calculations	Profit and Loss	
	Simple Interest, Loans, Hire Purchase	
Consolidation	Revision of all learning outcomes & assessment standards	 Task 7 Phase 3 Final exam: 17 Oct to 31 Nov
PHASE 3 into PHASE 1 GRADE 9 2015 (3 November 2014 – 10 December 2014)		
Algebra	Binomial Products	 Task 1 Control test: 5-10 Dec
	Factorisation (Common Factor, Difference of 2 squares, trinomials)	