









## MATHEMATICS: GRADE 8 2013

TOPIC	2013 WORK SCHEME	PORTFOLIO ASSESSMENT TASKS
<b>PHASE 1 (16 January 2013 – 28 March 2013)</b>		
Numbers, Operations and Relationships	Multiples and Factors	 <b>Task 1</b> Assignment 1: 20 – 24 February
	Integers	
	Fractions	
	Additive and Multiplicative Inverses	
Techniques, Strategies in Calculations	Exponents (laws, simple calculations, scientific notation)	 <b>Task 2</b> March control test: 18 March – 28 March
	Calculator Usage , Rounding, Estimation	
	Multiple Operations	
Patterns , Functions , Algebra	Classification of Like and Unlike	
	Addition and Subtraction	
<b>PHASE 2 (8 April 2013 – 21 June 2013)</b>		
Patterns, Functions, Algebra	Multiplying and dividing monomials	 <b>Task 3</b> Assignment on Patterns, Functions and Algebra: 21 – 24 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	 <b>Task 4</b> June Exam: 10 – 21 June
	Constructions (protractor techniques and constructing lines and angles)	
	Triangles (Types and side and angle relationships)	
<b>PHASE 3 (16 July 2013 – 1 November 2013)</b>		
Space and Shape: Lengths, Perimeter and Area	Theorem of Pythagoras	 <b>Task 5</b> Assignment data handling: 12 – 16 August
	Triangles	
	Quadrilaterals and other Polygons	
	Circles	
	Estimation and calculators	
Graphs	Relevant unit conversions	 <b>Task 6</b> Control test on Phase 3 work: Scheduled for week of 23 – 27 Sept
	Drawing graphs	
	Recognising Linear vs. non-linear and discrete vs. continuous	
Trans-formations	Use of terms: maximum, minimum, increasing, decreasing	
	Defining translation, rotation, reflection	
Financial Calculations	Using with symmetry to investigate geometry figures	
	Profit and Loss	
Consolidation	Simple Interest, Loans, Hire Purchase	 <b>Task 7</b> Phase 3 Final exam: 21 Oct to 1 Nov
	Revision of all learning outcomes & assessment standards	
<b>PHASE 3 into PHASE 1 GRADE 9 2014 (2 November 2013 – 6 December)</b>		
Algebra	Binomial Products	 <b>Task 1</b> Control test: 2-6 Dec
	Factorisation (Common Factor, Difference of 2 squares, trinomials)	