GRADE 11 (2014) – MATHEMATICAL LITERACY ASSESSMENT PROGRAMME

TOPIC /	SECTION	BASIC SKILLS / CONTENT	FORMAL
CONTEXT	SECTION		ASSESSM'T
	Estimation	Estimate anticipated solutions to calculations	TERM 1.
Numbers &	Rounding off	Types of rounding and the effect of rounding	<u></u>
Calculations in	Percentages	Percentage notation and percentage calculations	Task 1
Calculations in	Proportion	Direct and indirect (inverse) proportion	Investigation on
Context	Ratio	Basic ratio concepts and ratio calculations	Representation
	Rates	Rate calculations (e.g. cost, consumption, distance, time)	(Due: March)
Patterns.	Representations	Limited to those that include:	
Relationshins	of relationships in	Fixed, linear, inverse proportion, compound growth and	Task 2
and	tables, equations	other non-linear relationships – in two relationships	March Control
Dopresentations	and graphs	Estimation required in determining values in tables and on	(1 Paper – 1 hr)
Representations		graphs – relate to temperature, time & foreign exchange etc	
	Documents	Limited to those that deal with personal, household,	TERM 2:
	Tariff systems	workplace and small business finance – Demonstrate how	
Finance	Income/Expenses	the values in the documents have been determined.	
1 munee	Cost/Selling price	Calculate costs, draw & interpret graphs of various tariffs	
	Profit/loss	Calculations involving income, expenditure, profit & loss	
	Budgets	values, including fixed and variable values	
	Break-even analys	Determine cost of production &/or cost price and selling	Task 3
	Interest	price of an item based on an expected percentage profit	Assignment:
	Hire-purchase	Break-even values using graphs and substitution in rules	Business
	Banking, Loans &	Simple & compound interest with loans & investments	opportunity
	Investments	Calculation of interest on different types of accounts	(Due: June)
	Inflation	Investigate changes in prices & the impact over time	
	Taxation	Percentage calculations involving VAT and UIF	
	Exchange rates	Work with rates presented in foreign exchange tables	
	Conversions	Express values using given factors and tables, including	
	Temperature	metric to imperial units & appropriate to the context	
Measurement	Length & distance	Performing calculations in the context of maps, plans,	Task 4
	Mass (weight)	models and rates (eg: costs, speed, consumption rates)	June Exam
	Perimeter, Area &	Calculate values using formulae for perimeter, area &	(2 Papers - 2 nr)
	Volume	Volume and express answers in appropriate units	
	Time	Calculate quantities & cost of materials needed for a task	
Mana Diana and	Seele	Working with vorious trace of cooleg coloulating actual	TEDM 2.
Maps, Plans and	Mana	distances rates & determining the scale on a man or plan	<u>TERIVI 5</u> . Teck 5
other	Plans	Describing location & bearing on various types of mans	<u>I ask J</u> Investigation:
Representations	Models	2 Dimensional Floor, elevation and design plans	Scale/ plans and
	Widdels	Make & use 3D scale models of packaging containers	measurement
	Develop questions	Questions that requires the collection of 2 sets of data	(Due: Sept)
Data Handling	Collecting data	Collect data on problems relating to the wider community	(2 ac. 5 cpt)
Data Hanuning	Classifying and	Classify discrete & continuous data group data using	Task 6
	organising data	intervals, organize data using tallies & frequency tables	Control Test:
	Summarising data	Measures of central tendency & spread (excl. quartiles)	(Due: Sept)
	Representing data	Representing 2 sets of data in various types of graphs	× 1/
	Analysing data	Analyzing data presented in graphs to identify trends	Task 7
		Situations where data is interpreted in different ways	Assignment:
Probability	Expressions	Definition of probability & interpretation of ranges $0 - 1$	Data Handling
	Prediction	Tests where there is a chance of inaccurate results	_
	Representations	Recognise that probability is predictions about the outcome	<u>Task 8</u>
	for determining	of an event & the future based on past events	Nov Exam
	possible outcomes	Identify possible outcomes for compound events by	(2 Papers - 2 hr)
		making use of tree diagrams & two-way tables	

Compiled by R. Grey Subject Head