

SUGGESTED PLANNING of TEACHING and ASSESSMENT
Grade 10 Mathematical Literacy 2021

TERM 1 46 days	1: W: 2,2%	2: W:5,9%	3: W:9,6%	4: W: 13,3%	5: W: 17,0%	6: W: 20,7%	7: W: 24,4%	8: W: 28,1%	9: W: 31,8%	10: W: 31,8 %
CAPS Topic	NUMBERS AND CALCULATIONS WITH NUMBERS				PATTERNS RELATIONSHIPS & REPRESENTATIONS			DATA HANDELING		REVISION
Concepts, skills and values	Number formats: Decimal point/comma; thousand separators (1000, 1000 000, etc.); Positive and negative numbers in contexts; conversions between number formats (e.g. dozen, over, century, etc.) Time formats conversions (sec – min – hours – days – weeks – months – years – decade) CAPS: Pg 28	Operations with whole numbers and decimals with and without a calculator (BODMAS) Use a calculator to find: square, cube, square root of a number Operations with fractions CAPS: Pg 29	Rounding, Ratio, Rates, Direct and Inverse proportion, Percentages Rounding-off: to a specified number of decimal places, to the nearest whole number, up or down Ratio's: situations, formats and calculations Rates: meaning, types and calculations Percentage: notation and calculations; Percentage increase and decrease calculations in contexts CAPS: Pg 30 - 35	Patterns and relationships: Constant, direct proportion and inverse proportion relationships. Tables with input and output values CAPS: Pg 38	Pattern and relationship representations: Table with dependent and independent values Equations Graphs Interpretation Tables Graphs (determine: dependent and independent values, zero values, min/max values, missing values) Write a story from a graph or draw a graph from a story CAPS: Pg 39 - 42	DATA • Developing questions. • Collecting data • Classifying and organizing data. CAPS: Pg 83	DATA Summarising data. • Mean • Median • Mode • Range Analyse data represented by the above CAPS: Pg 84	Term 1 work		
Requisite pre-knowledge	Basic number concepts – Grade 7-9 Mathematics	Basic number concepts – Grade 7-9 Mathematics	Basic number concepts – Grade 7-9 Mathematics	Number patterns; Basic knowledge on graphs	Number patterns; Basic knowledge on graphs	Revision of gr 8 & 9 Maths				
Resources (other than textbook) to enhance learning	Answer Series Examination Aid Gr 10 Calculators	Answer Series Examination Aid Gr 10 Calculators	Answer Series Examination Aid Gr 10 Calculators	Answer Series Examination Aid Gr 10	Answer Series Examination Aid Gr 10	NEWSPAPERS and DATA BASES/SOURCES Answer Series Examination Aid Gr 10				
Informal Assessment remediation	Short tests on number formats		Worksheet on rounding, ratio, proportion and percentage		Short tests on graphs	Short test on Data (all concepts)				
SBA (Formal Assessment)						ASSIGNMENT				CONTROLLED TEST

Grade 10 Mathematical Literacy 2021

TERM 2 54 days	1: W:34,8 %	2: W:38,5%	3: W: 41,4%	4: W:44,4 %	5: W: 47,3%	6: W:50,3 %	7: W:54,0 %	8 - 11
CAPS Topic	FINANCE		MEASUREMENT		MAPS, PLANS & OTHER REPRESENTATIONS		PROBABILITY	Internal Tests
Topic, concepts, skills and values	Financial documents <ul style="list-style-type: none"> Household bills Shopping doc Banking doc Household budget Terminology used in above document CAPS: Pg 49 - 50	Tariff systems <ul style="list-style-type: none"> Municipal tariff Telephone tariff Transport tariff Bank fees Calculate: <ul style="list-style-type: none"> Cost using tariff and /or formula Draw & interpret graphs of various tariffs system CAPS: Pg 50	Conversions <ul style="list-style-type: none"> Metric system Conversion using factors/tables. Operations with numbers: Multiplication and division by: 10, 100, 1000 without calculator. CAPS: Pg 63	Measuring & estimating <ul style="list-style-type: none"> Length Distance Weight/mass Volume Temperature Time Calculate costs of products and services. CAPS: Pg 64 - 67	Scale Use Scale in the form: 1:500 and bar scales to: Calculate actual distance and length from the given map/plan measurements. CAPS: Pg 73	Maps Describe position of an object (e.g. building) in relation to surrounding. Describe position of a building) in relation to surrounding buildings Find location, Follow & develop directions Direction indicators (left, right, along, up, down, etc.) House building numbering Numbering system used for sitting in sport stadiums CAPS: Pg 74 - 75	<ul style="list-style-type: none"> Expression of probability Events and outcomes/results Prediction Relative frequency & theoretical probability of an event Tree diagrams and Two-way tables CAPS: Pg 91 - 93	Formal Test
Requisite pre-knowledge	Basic retrieval of information from documents; basic calculations	Understanding of substitution in formulae.	Revision of gr 8 & 9 work	Revision of gr 8 & 9 work	Revision of gr 8 & 9 work	Compass directions, map reading skills	Revision gr 8 & 9 work	
Resources (other than textbook) to enhance learning	Financial documents and tariff rates of: <ul style="list-style-type: none"> Household bills (electricity, water, telephone, cell phone) Shopping documents (till slips, account statements) Banking documents (bank statements, fee structures) Household budgets Transport tariffs 	Financial documents and tariff rates of: <ul style="list-style-type: none"> Household bills (electricity, water, telephone, cell phone) Shopping documents (till slips, account statements) Banking documents (bank statements, fee structures) Household budgets Salary slips Fees brochures Websites: <ul style="list-style-type: none"> www.taxshop.co.za www.ptracticalvatloosleaf.co.za 	Measuring instruments: <ul style="list-style-type: none"> Ruler Tape measure Baking measures (spoons/cups) Relevant sources: <ul style="list-style-type: none"> Baking recipes Conversion tables Plans of school/house 	Measuring instruments: <ul style="list-style-type: none"> Thermometer Kitchen/bathroom scale Baking measures (spoons/cups) Relevant sources: <ul style="list-style-type: none"> Baking recipes Conversion tables Plans of school/house 	<ul style="list-style-type: none"> Street maps Provincial and national road maps Maps showing railway routes Maps of layout of shopping centres Seating plans of cinemas/sport fields	<ul style="list-style-type: none"> Street maps Provincial and national road maps Maps showing railway routes Maps of layout of shopping centres Seating plans of cinemas/sport fields	<ul style="list-style-type: none"> Coins and Dice Games involving coins and dice Deck of cards Weather reports 	
Informal assessm; remediation	Short tests on financial documents and tariff systems		Worksheet on conversions and measuring		Short tests on scale and maps		Worksheet on probability	
SBA (Formal Assessment)				ASSIGNMENT				TEST

Grade 10 Mathematical Literacy 2021

TERM 3 53 days	1: W:56,9%	2: W:60,6%	3: W:64,3%	4: W: 68,0%	5: W: 71,8%	6: W:75,6%	7: W: 78,4%	8: W: 82,2%	9 - 11
CAPS Topic	FINANCE		MEASUREMENT		MAPS, PLANS & OTHER REPRESENTATIONS			Internal Tests and Revision	
Concepts, skills and values	<p>Income, expenditure, profit/loss, income-and-expenditure statements and budgets:</p> <ul style="list-style-type: none"> Perform calculations involving all of the above. Identify fixed, variable and occasional income and expenditure values from financial documents. Analyse and prepare income – and – expenditure statements and budgets <p>CAPS: Pg 51 -52</p>	<p>Interest</p> <p>Distinguish between interest rate and interest</p> <p>Calculate interest and interest rate</p> <p>Taxation</p> <p>Determine VAT in the context of shop purchases, till slips and bills.</p> <p>Calculate VAT inclusive/exclusive prices</p> <p>CAPS: Pg 54, 58</p>	<p>Calculate:</p> <ul style="list-style-type: none"> Perimeter Area Volume of rectangles, triangles and circles (quarter, semi and three-quarters) using formulae Cost of products <p>Solve problems and complete tasks/projects.</p> <p>CAPS: Pg 68 -69</p>	<p>Plans</p> <p>Floor plans and design:</p> <ul style="list-style-type: none"> Understand the symbol & notation used on plans. Describe what is being represented Analyse layout of shown in plan & suggest alternative layout option Determine actual length on plans using measurements and given scale Determine quantity of material needed by using the plans perimeter, area and volume calculations Draw 2D floor plans for familiar structures. <p>Assembly diagrams</p> <p>Models</p> <ul style="list-style-type: none"> Packaging of cans and/or boxes for optimal use of space <p>Determine the most cost-effective way of packaging a number of cans and/or boxes</p> <p>CAPS: Pg 76 - 80</p>					
Requisite pre-knowledge	Revision of gr 8 & 9 Fin Maths		Revision of gr 8 & 9 Fin Maths; Introduction to value added tax. Percentage calculations.	Revision of gr 8 & 9 Maths		Exposing learners to different basic floor plans, model instructions, etc.			
Resources (other than textbook) to enhance learning	<p>Personal Income: salaries, wages & commission; gifts & pocket money; bursaries and loans; savings; interest; inheritance</p> <p>Personal Expenditure: Living expenses; accounts; telephone; fees; insurance; personal taxes; loan repayments; taxes</p>	Bank statements, account statements, invoices, quotations, etc.	<p>Measuring instruments:</p> <ul style="list-style-type: none"> Ruler Tape measure <p>Different shapes in classroom and real-life context</p> <p>E.g. Shoe box Pringle holders Toilet roll Different copies of nets</p>	<p>Floor plans and design</p> <ul style="list-style-type: none"> Familiar structure (e.g. classroom, room in a house, bedroom or lounge) <p>Models</p> <ul style="list-style-type: none"> Use actual cans and a range of actual boxes 					
Informal assessm; remediation	Short tests on income and expenditure		Short tests on interest and tax	Exercise on perimeter, area and volume		Practical exercise on floor plans			
SBA (Formal Assessment)				INVESTIGATION					TEST

Grade 10 Mathematical Literacy 2021

TERM 4 47 days	1: W: 85,7%	2: W:89,4%	3: W:93,0 %	4: W: 96,5%	5: W:100%	6 - 10																
CAPS Topic	FINANCE		DATA HANDLING			Internal Examinations																
Concepts, skills and values	Banking, loans & investments. Understand terminology in the banking documents Determine bank charges for different bank account types. Draw graphs from given bank charges. CAPS: Pg 55	DATA (Revise) Summarising data. • Mean • Median • Mode • Range Analyse data represented by the above CAPS: Pg 84	DATA Representing data • Pie chart • Histogram • Single bar graph • Line and broken line graph CAPS: Pg 86 - 87	DATA Analyse data represented by the graphs done in previous week CAPS: Pg 87 - 88	Notes on or guidelines for final examinations: FINAL EXAMINATION (two papers) <table border="1"> <thead> <tr> <th>PAPER 1</th> <th>PAPER 2</th> </tr> </thead> <tbody> <tr> <td>75 MARKS; 1½ HOUR</td> <td>75 MARKS; 1½ HOUR</td> </tr> <tr> <td>4 Questions</td> <td>4 Questions</td> </tr> <tr> <td>Question 1 = 15 marks (Level 1)</td> <td>Question 1 = 15 marks (Level 1)</td> </tr> <tr> <td>Question 2, 3 and 4 Level 1 = 7-8 marks</td> <td>Question 2, 3 and 4 Level 1 = 7-8 marks</td> </tr> <tr> <td>Level 2 = 22-23marks</td> <td>Level 2 = 22-23 marks</td> </tr> <tr> <td>Level 3 = 15 marks</td> <td>Level 3 = 15 marks</td> </tr> <tr> <td>Level 4 = 15 marks</td> <td>Level 4 = 15 marks</td> </tr> </tbody> </table>		PAPER 1	PAPER 2	75 MARKS; 1½ HOUR	75 MARKS; 1½ HOUR	4 Questions	4 Questions	Question 1 = 15 marks (Level 1)	Question 1 = 15 marks (Level 1)	Question 2, 3 and 4 Level 1 = 7-8 marks	Question 2, 3 and 4 Level 1 = 7-8 marks	Level 2 = 22-23marks	Level 2 = 22-23 marks	Level 3 = 15 marks	Level 3 = 15 marks	Level 4 = 15 marks	Level 4 = 15 marks
PAPER 1	PAPER 2																					
75 MARKS; 1½ HOUR	75 MARKS; 1½ HOUR																					
4 Questions	4 Questions																					
Question 1 = 15 marks (Level 1)	Question 1 = 15 marks (Level 1)																					
Question 2, 3 and 4 Level 1 = 7-8 marks	Question 2, 3 and 4 Level 1 = 7-8 marks																					
Level 2 = 22-23marks	Level 2 = 22-23 marks																					
Level 3 = 15 marks	Level 3 = 15 marks																					
Level 4 = 15 marks	Level 4 = 15 marks																					
Requisite pre-knowledge	Substitution in formulae; Interpretation of graphs.	Revision of gr 8 & 9 Maths			Finance, Data Handling and Probability Maps and plans, Measurement and Probability																	
Resources (other than textbook) to enhance learning	Bank statements, account information brochures, etc.,	NEWSPAPERS and DATA BASES/SOURCES Answer Series Examination Aid Gr 10			NB: SECTION IN FINANCE THAT CAN BE EXAMINED IN PAPER 2 Income, Expenditure, Profit/loss, Income-and-Expenditure statements and Budgets, Cost price and Selling price (See Abridged Section 4 amendments).																	
Informal assessm; remediation		Short test on Data (all concepts)																				
SBA (Formal Assessment)																						