

2023/24 ANNUAL TEACHING PLANS: MATHEMATICAL LITERACY: GRADE 10 (TERM 1)

TERM 1	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8	WEEK 9	WEEK 10	WEEK 11
CAPS TOPIC	NUMBERS AND CALCULATIONS WITH NUMBERS				PATTERNS RELATIONSHIPS & REPRESENTATIONS			DATA HANDLING		REVISION	
NOTE	The topics "Numbers and calculations with numbers" and "Patterns, relationships and representations" have been included in this work schedule to provide teachers with the opportunity to revise the concepts contained in these topics. However, it is essential that these concepts are not taught in the absence of contexts but that learners are exposed to these concepts in realistic scenarios (CAPS: Page 15).										
CONCEPTS, SKILLS AND VALUES	Number formats: <ul style="list-style-type: none"> Decimal point, comma, thousand separators (1 000, 1 000 000, etc.) Positive and negative numbers in contexts, conversions between number formats (e.g., dozen, over, century, etc.) 	Operations: <ul style="list-style-type: none"> 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 	Rounding, ratio, rates and percentage: <ul style="list-style-type: none"> Rounding, ratio, rates, direct and inverse proportion, percentages Rounding-off <ul style="list-style-type: none"> 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 	Patterns & relations: <ul style="list-style-type: none"> Patterns and relationships Constant, direct proportion and inverse proportion relationships. Tables with input and output values 	Pattern and relationship representations: <ul style="list-style-type: none"> Table with dependent and independent values, variables Equations Graphs Interpretation of Tables and Graphs Example: Determine: dependent and independent values, variables, zero values, min, max values, missing values Write a story from a graph or draw a graph from a story 	<ul style="list-style-type: none"> Developing questions Collecting data Classifying and organizing data Summarising data. <ul style="list-style-type: none"> Mean Median Mode Range Analyse data represented by the above 	<ul style="list-style-type: none"> Number and calculations with numbers Patterns relations and representations Data handling 				
PAGE NO. IN CAPS	Page 28	Page 29	Page 30-35		Page 38	Page 39-42		Page 83-84			
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		Basic number concepts – Grade 7-9 Mathematics			
RESOURCES (OTHER THAN TEXTBOOK) TO ENHANCE LEARNING	CAPS policy document CAPS aligned textbooks Examination guidelines Calculators Any other relevant resources							<ul style="list-style-type: none"> CAPS NEWSPAPERS and DATA BASES, SOURCES CAPS aligned textbooks Examination guidelines Calculators 			
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)	INVESTIGATION AND CONTROLLED TEST										

2023/24 ANNUAL TEACHING PLANS: MATHEMATICAL LITERACY: GRADE 10 (TERM 2)

TERM 2	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8	WEEK 9	WEEK 10	WEEK 11
CAPS TOPIC	FINANCE		MEASUREMENT		MAPS, PLANS & OTHER REPRESENTATIONS			PROBABILITY	REVISION		
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 	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 systems 	Conversions: <ul style="list-style-type: none"> Metric system Conversion using factors, tables. Time formats conventions, conversion (sec, min, hours, days, weeks, months, years, decade) 	Measuring & estimating: <ul style="list-style-type: none"> Length Distance Weight, mass Volume Temperature Time Calculate costs of products and services 	Scale: <ul style="list-style-type: none"> Use Scale in the form: 1:500 and bar scales to Calculate actual distance and length from the given map, plan measurements. 	Maps: <ul style="list-style-type: none"> 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 	Probability expression and representation: <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 	<ul style="list-style-type: none"> Finance Measurement Maps, plans and other representations 			
PAGE NO. IN CAPS	Page 49-50	Page 50	Page 63	Page 64-67	Page 73	Page 74-75		Page 91-93			
REQUISITE PRE-KNOWLEDGE	Grade 8 & 9 work	Grade 8 & 9 work	Grade 8 & 9 work	Grade 8 & 9 work	Grade 8 & 9 work			Revision Grade 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 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.practicalvatloosleaf.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"> Maps showing layout of a classroom and, or seating plan Maps showing layout of buildings and, or sports field of a school 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 ASSESSMENT, 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 AND MID-YEAR EXAM										

2023/24 ANNUAL TEACHING PLANS: MATHEMATICAL LITERACY: GRADE 10 (TERM 3)

TERM 3	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8	WEEK 9	WEEK 10	WEEK 11
CAPS TOPIC	FINANCE					MEASUREMENTS		MAPS, PLANS & OTHER REPRESENTATIONS		REVISION	
CONCEPTS, SKILLS, AND VALUES	Income, expenditure, profit, loss, income-and-expenditure statements, and budgets: <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 		Interest: <ul style="list-style-type: none"> Distinguish between interest rate and interest Calculate interest and interest rate (without the use of a formulae) Taxation Determine VAT in the context of shop purchases, till slips and bills Calculate VAT inclusive, exclusive prices 	Banking, loans & investments: <ul style="list-style-type: none"> Understand terminology in the banking documents Determine bank charges for different bank account types. Draw graphs from given bank charges. 		Perimeter and Area: Calculate: <ul style="list-style-type: none"> Perimeter and Area of rectangles, triangles, and circles (quarter, semi, and three-quarters) using provided formulae Cost of products Solve problems and complete tasks, projects 		Plans: <ul style="list-style-type: none"> Floor plans and design: <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 Assembly diagrams Models <ul style="list-style-type: none"> Packaging of cans and or boxes for optimal use of space Determine the most cost-effective way of packaging a number of cans and or boxes 		<ul style="list-style-type: none"> Finance Measurements Maps and Plans Probability 	
PAGE NO. IN CAPS	Page 51-52		Page 54, 58	Page 55		Page 68-68		Page 76-80			
REQUISITE PRE-KNOWLEDGE	gr 8 & 9 Financial Maths		Revision of gr 8 & 9 fin maths Introduction to value added tax. Percentage calculations.	Substitution in formulae, Interpretation of graphs.		gr 8 & 9 Maths		Exposing learners to different basic floor plans, models instructions, etc.			
RESOURCES (OTHER THAN TEXTBOOK) TO ENHANCE LEARNING	Personal Income: <ul style="list-style-type: none"> Salaries Wages & commission Gifts & pocket money Bursaries and loans Savings Interest Inheritance Personal Expenditure: <ul style="list-style-type: none"> Living expenses Accounts Telephone Fees Insurance Personal taxes Loan repayments Taxes 		<ul style="list-style-type: none"> Bank statements Account statements Invoices Quotations, etc. 	<ul style="list-style-type: none"> Bank statements, account information brochures, etc., CAPS aligned textbooks Examination guidelines Calculators 		Measuring instruments: <ul style="list-style-type: none"> Ruler Tape measure Different shapes in classroom and real-life context e.g.: <ul style="list-style-type: none"> Shoe box Pringle holders Toilet roll Different copies of nets 		<ul style="list-style-type: none"> Floor plans and design <ul style="list-style-type: none"> Familiar structure (e.g., classroom, room in a house, bedroom, or lounge) Models <ul style="list-style-type: none"> Use actual cans and a range of actual boxes 			
INFORMAL ASSESSMENT, REMEDIATION	Short tests on income and expenditure		Short tests on interest and tax	Short tests on banking, loans, and investments		Exercise on perimeter, area, and volume		Practical exercise on floor plans			
SBA (FORMAL ASSESSMENT)	ASSIGNMENT and CONTROLLED TEST										

2023/24 ANNUAL TEACHING PLANS: MATHEMATICAL LITERACY: GRADE 10 (TERM 4)

TERM 4	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7-10						
CAPS TOPIC	DATA HANDLING		REVISION		REVISION		INTERNAL EXAMINATIONS						
CONCEPTS, SKILLS, AND VALUES	DATA HANDLING: Representing data: <ul style="list-style-type: none"> • Pie chart (Interpretation only) • Histogram • Single bar graph • Line and broken line graph 	DATA HANDLING: <ul style="list-style-type: none"> • Analyse data represented by the graphs done in previous week 	<ul style="list-style-type: none"> • FINANCE • DATA HANDLING • PROBABILITY 		<ul style="list-style-type: none"> • MEASUREMENT • MAPS, PLANS AND OTHER REPRESENTATIONS OF THE PHYSICAL WORLD • PROBABILITY 		Notes on or guidelines for final examinations: FINAL EXAMINATION (two papers) <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;">PAPER 1</th> <th style="width: 50%;">PAPER 2</th> </tr> </thead> <tbody> <tr> <td>75 MARKS: 1 HOUR 30 MINUTES</td> <td>75 MARKS: 1 HOUR 30 MINUTES</td> </tr> <tr> <td> Question 1: 20% (level 1) Question 2: Finance Question 3: Data handling Question 4 – 5: Integration of finance, data handling and probability </td> <td> Question 1 = 20% (level 1) Question 2: Maps and plans Question 3: Measurements Question 4 – 5: Integration of maps & plans and measurements and probability </td> </tr> </tbody> </table>	PAPER 1	PAPER 2	75 MARKS: 1 HOUR 30 MINUTES	75 MARKS: 1 HOUR 30 MINUTES	Question 1: 20% (level 1) Question 2: Finance Question 3: Data handling Question 4 – 5: Integration of finance, data handling and probability	Question 1 = 20% (level 1) Question 2: Maps and plans Question 3: Measurements Question 4 – 5: Integration of maps & plans and measurements and probability
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PAGE NO. IN CAPS	Page 86-87	Page 87-88											
REQUISITE PRE-KNOWLEDGE	Gr 8 & 9 Maths												
RESOURCES (OTHER THAN TEXTBOOK) TO ENHANCE LEARNING	Newspapers and data bases, sources CAPS aligned textbooks Examination guidelines Calculators												
INFORMAL ASSESSMENT, REMEDIATION	Short test on data (all concepts)												
SBA (FORMAL ASSESSMENT)	No SBA Task												