

2023

Annual Teaching Plans
**MATHEMATICAL
LITERACY**

FET Phase



Shuter & Shooter
PUBLISHERS (PTY) LTD



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Shuter & Shooter Publishers (Pty) Ltd
Shuters Business Park, 45 Willowton Road, Willowton, Pietermaritzburg 3201, South Africa
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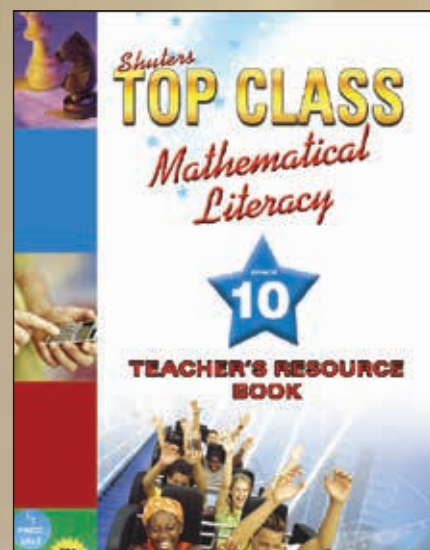
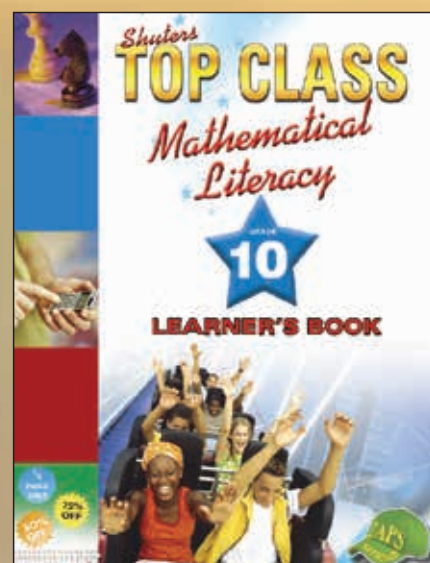
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- Helps save planning and preparation time
- Follows the CAPS precisely, making teaching easier
- Most of our titles are also available as e-Books

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MATHEMATICAL LITERACY TERM 1

Topic	Content	Time allocation	Where to find it in <i>Top Class Mathematical Literacy Grade 10</i>	LB	TG
Numbers and calculations with numbers	Number formats: - 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.)	Week 1	Unit 1: Number formats and conventions	1	1
	Operations: - 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	Week 2	Unit 2: Operations on numbers and number skills Unit 3: Operations on numbers and number skills (contd.)	11 28	6 11
	Rounding, ratio, rates and percentage: - 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	Weeks 3 to 4	Unit 4: Rounding; Ratios; Proportions Unit 5: Rates; Percentages	43 60	16 21

Patterns, relationships and representations	Patterns & relations: - Patterns and relationships - Constant, direct proportion and inverse proportion relationships. - Tables with input and output values	Week 5	Unit 7: Patterns and relationships	87	30
	Pattern and relationship representations: - 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	Weeks 6–7	Unit 6: Making sense of graphs that tell a story	77	26
			Unit 8: Representation of relationships in tables, equations and graphs	98	37
Data handling	- Developing questions - Collecting data - Classifying and organizing data - Summarising data. - Mean - Median - Mode - Range - Analyse data represented by the above	Weeks 8–10	Revise Grade 9		
Revision		Week 11			

MATHEMATICAL LITERACY TERM 2

Topic	Content	Time allocation	Where to find it in <i>Top Class Mathematical Literacy Grade 10</i>		
			Module/Unit	LB	TG
Finance	Financial documents: - Household bills - Shopping doc - Banking doc - Household budget - Terminology used in above document	Week 1	Unit 10: Financial documents	133	48
	Tariff systems: - Municipal tariff - Telephone tariff - Transport tariff - Bank fees Calculate: - Cost using tariff and, or formula - Draw & interpret graphs of various tariffs systems	Week 2	Unit 11: Tariff systems	142	50
Measurement	Conversions: - Metric system - Conversion using factors, tables. - Time formats conventions, conversion (sec, min, hours, days, weeks, months, years, decade)	Week 3	Unit 9: Conversions; Time	120	44
	Measuring & estimating: - Length - Distance - Weight, mass - Volume - Temperature - Time - Calculate costs of products and services	Week 4	Unit 12: Measuring length and distance	154	54
			Unit 13: Measuring mass (weight), volume and temperature	162	58

Maps, plans and other representations of the physical world	Scale: • Use Scale in the form: 1:500 and bar scales to • Calculate actual distance and length from the given map, plan measurements	Week 5	Unit 14: Maps and scales	172	62
	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	Weeks 6–7	Unit 15: Maps	177	64
Probability	Probability expression and representation: • Expression of probability • Events and outcomes, results • Prediction • Relative frequency & theoretical probability of an event • Tree diagrams and two- way tables	Weeks 8–9	Unit 16: Expressions of probability	186	68
Revision		Weeks 10–11	Unit 17: Predictions and representations	194	70

MATHEMATICAL LITERACY TERM 3

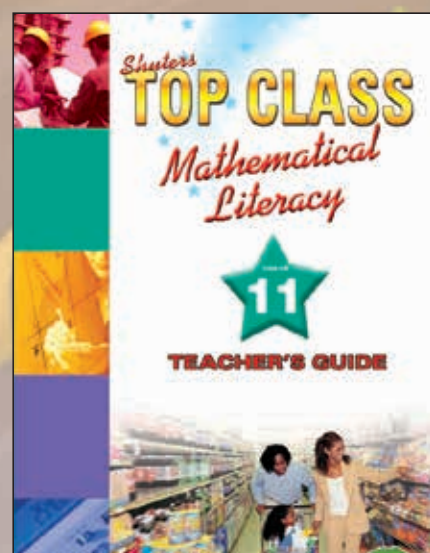
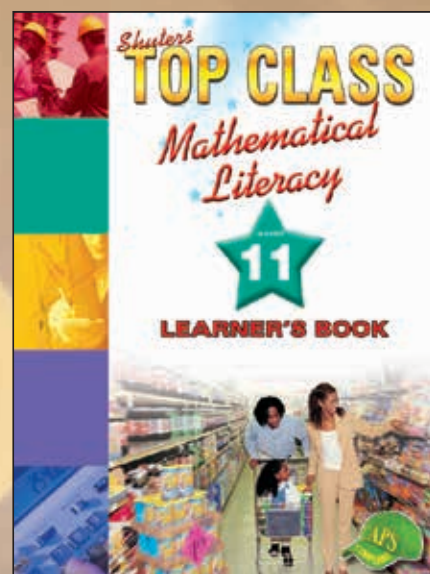
Topic	Content	Time allocation	Where to find it in <i>Top Class Mathematical Literacy Grade 10</i>		
			Module/Unit	LB	TG
Finance	Income, expenditure, profit, loss, income- and-expenditure statements, and budgets: • Perform calculations involving all of the above • Identify fixed, variable, and occasional income and expenditure values from financial documents • Analyse and prepare income-and- expenditure statements and budgets Interest: • 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: • Understand terminology in the banking documents • Determine bank charges for different bank account types. • Draw graphs from given bank charges.	Weeks 1–2	Unit 18: Who wants to be a millionaire?	202	73
			Unit 19: Budgets and income and expenditure statements	209	75
			Unit 20: Finance – In control of your money matters	217	78
		Week 3	Unit 27: Interest; Taxation	267	98
Measurement	Perimeter and Area: Calculate: • 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	Weeks 4–5	Unit 28: Banking	276	101
			Unit 21: Perimeter, area and volume (1)	221	81
			Unit 22: Perimeter, area and volume (2)	227	83
		Weeks 6–7	Unit 23: Perimeter, area and volume (3)	233	85

Maps, plans and other representations of the physical world	Plans: - Floor plans and design: - 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 - 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	Weeks 8–9	Unit 24: Working with instructions/assembly diagrams	240	88
			Unit 25: Working with floor plans showing a top view perspective	247	92
			Unit 26: Models of actual cans and boxes	255	94
Revision	Finance Measurements - Maps and plans - Probability	Weeks 10–11			

MATHEMATICAL LITERACY TERM 4

Topic	Content	Time allocation	Where to find it in <i>Top Class Mathematical Literacy Grade 10</i>		
			Module/Unit	LB	TG
Data handling	DATA HANDLING: - Representing data: - Pie chart (Interpretation only) - Histogram - Single bar graph - Line and broken line graph	Week 1	Unit 29: Developing questions and collecting data	292	105
			Unit 30: Classifying and organising data	303	108
			Unit 31: Summarising data	312	110
			Unit 32: Representing data	319	112
			Unit 33: Interpreting and analysing data	335	115
Revision	DATA HANDLING Analyse data represented by the graphs done in previous week	Week 2	Revise Grade 10		
		Weeks 3–4			
		Weeks 5–6			
	Internal examinations	Weeks 7–10			

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MATHEMATICAL LITERACY TERM 1

Topic	Content	Time allocation	Where to find it in <i>Top Class Mathematical Literacy Grade 11</i>		
			Module/Unit	LB	TG
Patterns, relationships and representation	Patterns and Relationships: • Constant difference (two relationships) • Inverse proportion (two relationships) • Constant ratio between consecutive terms • A combination of any two of the above • Representations (two relationships) – Equations and formulae – Dependent and independent variables • Tables and graphs	Weeks 1–2	Unit 1: Patterns and relationships	1	1
			Unit 2: Representation of relationships	15	11
			Unit 3: Working with two relationships	33	19
Measurements	Conversions: • Metric to imperial • Temperature (°C to °F and vice versa) Time: • Duration (hours to minutes and vice versa)	Week 4	Unit 4: Conversions	53	28
			Unit 5: Time	72	35
	Conversions: • Equivalent proportionality conversions, e.g., 5 litre paint covers 20 m²; 1 teaspoon ≈ 5 ml Measuring & estimating: • Length • Distance • Mass, weight • Volume • Temperature	Week 5	Unit 14: Measuring length and distance; measuring weight	203	87
			Unit 15: Measuring volume and measuring temperature	221	92
	Calculate: • Perimeter • Area (Surface Area) • Volume Note: Costs calculations may apply to the above sections.	Weeks 6	Unit 18: Perimeter, area and volume (1)	272	115
			Unit 19: Perimeter, area and volume (2)	291	119
			Unit 20: Perimeter, area and volume (3)	300	123

Finance	Financial Documents: - Terminology and calculations of the values on the documents - Income (fixed, variable and occasional): Sources of income: - Personal income (e.g., salaries, wages and commission) - Business income (e.g., sales, donations and grants) Expenditure: - Personal expenditure (e.g., living expenses, personal tax, loan repayments) - Business expenditure (e.g., taxes, salaries, running expenses)	Weeks 9–10	Unit 6: Financial documents, tariff systems	87	43
			Unit 7: Income, expenditure, profit/loss, income-and-expenditure statements and budgets	111	50
Revision	- Patterns and relationships - Measurement - Finance	Week 11			

MATHEMATICAL LITERACY TERM 2

Topic	Content	Time allocation	Where to find it in <i>Top Class Mathematical Literacy Grade 11</i>		
			Module/Unit	LB	TG
Finance	Taxation:	Week 1	Unit 24: Taxation	349	138
	• VAT • UIF • Exchange rates		Unit 27: Exchange rates	384	
	Tariff system: • Municipal tariffs • Telephone tariffs • Transport tariffs • Bank fees • Compare two options: – Performing calculations – Drawing and interpreting graphs	Weeks 2–3	Unit 6: Financial documents, tariff systems	87	43
Maps, plans and other representations	Scales and map: • Scales: – Number scales – Bar scales • Maps (directions and point locations): – Seating plans – Lay out plan – Street maps – Road and rail maps (national, provincial) – Residential maps etc.	Weeks 4–5	Unit 16: Maps and scales	246	99
			Unit 17: Maps	255	103

Data handling	Developing questions: - Collecting Data: - populations and samples, data collection methods and instruments - Classifying and organising data: - Tallies and frequency tables	Week 6	Unit 28: Collecting, classifying and organising data	391	155
				405	160
				419	164
				439	168
Probability	Summarising data: - Mean - Median - Mode - Range Analyse data represented by the above averages	Week 7	Unit 29: Summarising data		
Probability	Representing, interpreting and analysing data: - Multiple bar graphs - Line and broken line graph - Scatter plots	Week 8	Unit 30: Representing data	419	164
				439	168
Probability	Simple events: - Outcome, event and probability scale (revision) - Relative frequency - Theoretical probability Compound Events: - Tree diagrams - Two-way tables	Week 9	Unit 25: Expression of probability	357	141
				370	145
Revision	- Finance - Maps, plans and other representations - Data handling - Probability	Weeks 10–11			

MATHEMATICAL LITERACY TERM 3

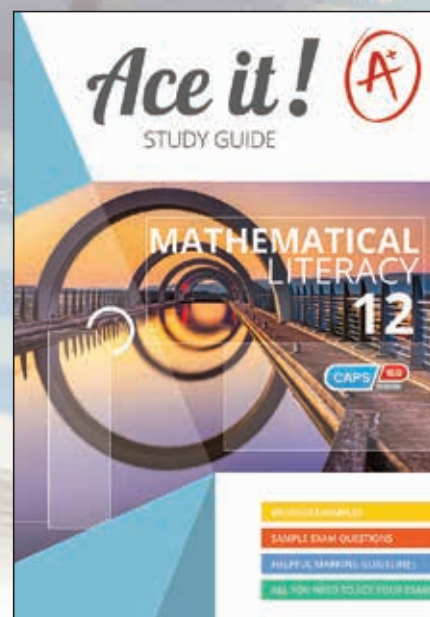
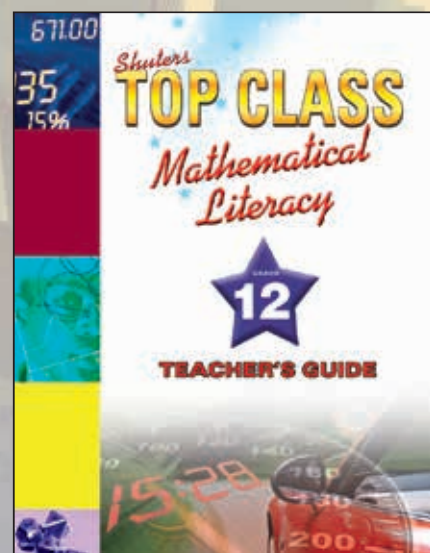
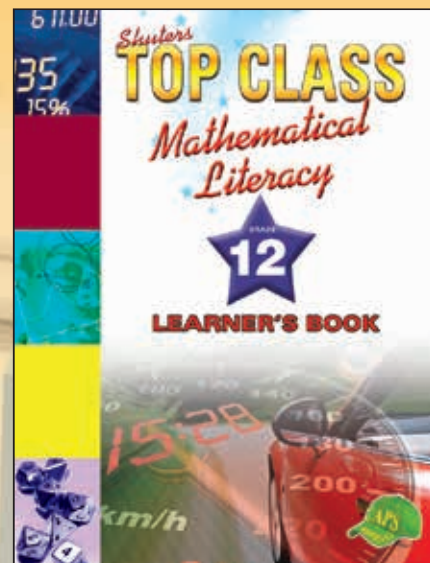
Topic	Content	Time allocation	Where to find it in <i>Top Class Mathematical Literacy Grade 11</i>	LB	TG
Finance	Income, expenditures, profit, loss: - Large organisations and fundraising projects - A comparison of income, expenditure, profit values over two years - Budgets showing a comparison of projected vs actual, expenditure and profit, loss values	Week 1	Unit 7: Income, expenditure, profit/loss, income-and-expenditure statements and budgets	111	50
	Cost price and selling price: - Cost of producing, manufacturing - Appropriate selling price - Percentage profit	Week 2	Unit 8: Cost price and selling price	123	53
	Break-even analysis: Determine break-even values from formulae and graphs	Week 3	Unit 9: Break-even analysis	129	55
	Interest, loans and banking: - Interest (Calculate without the use of the formulae): - Loans - Investments - Bank accounts - Banking - Savings account - Cheque, current account - Fixed deposit account - Credit and debit account etc. - Inflation - Calculation - Rate of increase or decrease	Weeks 4–5	Unit 11: Banking Unit 12: Loans and investments	154 181	69 77

Maps, plans and other representations of the physical world	Building plans (Scale) • Housing plans • Elevation plans • Design drawings	Weeks 6–7	Unit 21: Rough and scaled elevation plans showing side perspectives and design drawings of items to be manufactured	309	126
			Unit 22: Models – packaging shape and material	325	131
			Unit 23: Models – quantities of materials and furniture items to fit into a venue	337	135
Revision and consolidation	Models • Packaging • Use actual cans and a range of actual boxes	Weeks 8–9			
Revision and consolidation	• Finance • Data handling • Measurements • Maps and plans	Weeks 10–11			

MATHEMATICAL LITERACY TERM 4

Topic	Content	Time allocation	Where to find it in <i>Top Class Mathematical Literacy Grade 11</i>		
			Module/Unit	LB	TG
Maps and plans	Assembling: • Follow instructions, e.g.: • Plugs • Plastic models • Unassembled wooden furniture • Cell phones • Electrical appliances • Children's toys	Weeks 1–2	Revise Grade 11		
	• Finance • Data handling • Probability	Weeks 3–4			
	• Measurement • Maps, plans and other representations of the physical world • Probability	Weeks 5–6			
Revision and consolidation	End-of-year examination	Weeks 7–10			

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MATHEMATICAL LITERACY TERM 1

Topic	Content	Time allocation	Where to find it in <i>Top Class Mathematical Literacy Grade 12</i>		
			Module/Unit	LB	TG
Finance	Financial documents: • Tax documents (e.g., tax rate tables, IRP5, employee income tax, etc.) • Loan documents (e.g., bank statements, loan institutions showing changes on loan agreements, etc.)	Week 1	Unit 2: Financial documents and tariff systems	25	9
			Unit 18: Taxation (1)	344	109
			Unit 19: Taxation (2)	366	114
	Taxation: • Personal income tax, • Taxable & non-taxable income, • Rebates • UIF (maximum amount) • VAT (15%)	Week 2			
	Tariff systems: (Compare 2 or more) • Electricity tariffs • Telephone tariffs • Municipal tariffs • Bank tariffs • Transport tariffs • Tables • Graphs • Formulae	Week 3			
	Income, expenditures, profit, loss: (Large organisations and fundraising projects) • A comparison of income, expenditure, profit values over two years • Budgets showing a comparison of projected vs actual, expenditure and profit, loss values	Week 4	Unit 3: Income, expenditure, profit, loss, cost price, selling price and break-even analysis	49	19
	Cost price & selling price: Cost of producing, manufacturing • Appropriate selling price • Percentage profit • Break-even analysis: (Determine break-even values from formulae and graphs)	Week 5	Unit 4: Break-even values	68	27
	Developing questions: • National and global issues • Collecting data: – Develop and use data collection instruments. (e.g., interview questions, questionnaires, recording sheets, etc.) • Classifying & organising data: • Sort numerical and categorical data using categories and class	Week 6	Unit 5: Developing questions and collecting multiple sets of data	84	35
	Data handling				

Data handling (contd)	Summarising data: Quartiles	Week 7	Unit 7: Summarising multiple sets of data	123	44
	• Inter-quartile range • Calculate and analyse measures of central tendency and spread. • Percentiles				
	Representing, interpreting, and analysing data:				
	• Pie charts • Histograms, bar graphs • Line & broken line graphs • Scatter plots • Box and whisker plots				
Probability	Representing, interpreting, and analysing data:	Week 8	Unit 6: Classifying and organising multiple sets of data	105	40
	• Pie charts • Histograms, bar graphs • Line & broken line graphs • Scatter plots • Box and whisker plots		Unit 8: Representing multiple sets of data	146	48
	• Pie charts • Histograms, bar graphs • Line & broken line graphs • Scatter plots • Box and whisker plots		Unit 9: Interpreting and analysing data	166	51
	• Pie charts • Histograms, bar graphs • Line & broken line graphs • Scatter plots • Box and whisker plots		Unit 22: Expressions and predictions of probability	407	125
Finance	Probability:	Week 9	Unit 23: Representing and evaluating expressions involving probability	428	131
	• Probability of simple events • (dice, coin games, national lotteries, Gambling, insurance risk assessment, etc.) • Relative frequency and theoretical probability • Compound events • Tree diagrams and two-way tables		Unit 10: Interest	184	56
	Interest and Banking:		Unit 11: Banking; Inflation	204	63
	• Hire purchase, residual, balloon • Loans • Interest rate, interest, repayment		Unit 20: Exchange rates	376	117
Finance	Banking:	Week 10	Unit 10: Interest	184	56
	• Investments • Insurance Plans • (Interest, interest rate, charges, monthly payment)		Unit 11: Banking; Inflation	204	63
	Inflation:		Unit 20: Exchange rates	376	117
	• Buying power over time • Prices of items over time • Interpret and analyse graphs • Exchange rates • Currency relationships, buying power		Unit 20: Exchange rates	376	117

MATHEMATICAL LITERACY TERM 2

Topic	Content	Time allocation	Where to find it in Top Class Mathematical Literacy Grade 12		
			Module/Unit	LB	TG
Measurement	Conversions: • Conversion factors and tables • Metric to imperial and vice versa • °C to °F and vice versa • Time • Timetables, transport (Bus, Train, Taxi) • Production e.g., building a house • Tide Perimeter and area: • Length, distance, and time • Perimeter • Area Note: Cost calculations may apply to the above sections Volume and surface area: • Surface area • Volume • Rate (speed, costing, etc.) • Mass(weight) Note: Cost calculations may apply to the above sections BMI • (Formulae for BMI = kg, m²) • Interpreting charts	Week 1	Unit 1: Conversions; Time	1	1
			Unit 14: Measuring length and distance; Measuring mass (weight)	268	81
		Week 2	Unit 16: Perimeter, area and volume (1)	315	101
			Unit 17: Perimeter, area and volume (2)	334	109
		Weeks 3–4	Unit 15: Measuring volume and temperature	300	89

MATHEMATICAL LITERACY TERM 2

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Maps, plans and other representations of the physical world	Scale • Scale (ratio, bar) • Determine actual lengths and distances from a given scale • Determine a scale for drawings and, or models • Determine a scale in which to draw diagram or construct a model	Unit 12: Scale and map work (1)	226	70
	Maps • Grid reference • Compass directions • Slope on map	Unit 13: Scale and map work (2)	249	77
Revision	• Finance • Data handling • Measurements • Scale and maps	Week 7		
	Internal examinations	Weeks 8–11		

MATHEMATICAL LITERACY TERM 3

Topic	Content	Time allocation	Where to find it in Top Class Mathematical Literacy Grade 12		
			Module/Unit	LB	TG
Maps, plans and other representations of the physical world	Plans: - Diagrams (assembly instructions in manuals, etc.) - Plans (symbols and notation, terminology, determine actual dimensions using a given scale, determine a suitable scale to draw a plan, draw 2D floor and elevation plans)	Weeks 1–3	Unit 21: Rough and scaled elevation plans and drawings showing different perspectives for complex structures	388	119
	Models: - Solving packaging problems 3D scale models 2D pictures (Item arrangement, estimate material quantities)	Weeks 4–5	Unit 24: Making and using models	449	143
			Unit 25: Ways of stacking and arranging rooms and scale models to solve problems	468	149
Revision	- Finance - Data handling - Probability	Week 6			
	- Measurements - Maps and plans - Probability	Week 7			
	Preparatory examinations	Weeks 8–11			

PROGRAMME OF ASSESSMENT

Grade 10

Term	Assessment task	Page reference
1	Investigation	TG page 120
	Test	TG page 122
2	Assignment	TG page 124
	Examination	TG page 125
3	Assignment	TG page 135
	Test	TG page 133
4	Final examination	TG page 136

Grade 11

Term	Assessment task	Page reference
1	Investigation	TG page 192
	Test	TG page 59
2	Assignment	TG page 193
	Examination	TG page 108
3	Assignment	TG page 194
	Test	TG page 150
4	Final examination	TG page 172

Grade 12

Term	Assessment task	Page reference
1	Investigation	TG page 162
	Test	TG page 165
2	Assignment	TG page 160
	Test	TG page 178
3	Test	TG page 170
	Trial examination	TG page 183
4	Final examination	

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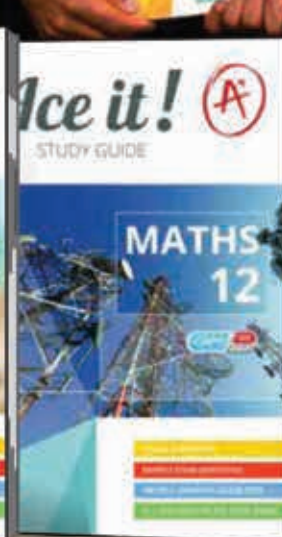
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	Phumzile Ngcobo	083 272 9029	phumzile@shuters.com
	Gloria Mthethwa	081 046 1735	gloria@shuters.com
Limpopo	Dimakatso Makhurane	083 215 6835	dimagatso@shuters.com
Mpumalanga	Dimakatso Makhurane	083 215 6835	dimagatso@shuters.com
Northern Cape	Colette van der Merwe	071 851 1814	colette@shuters.com
North West	Phemelo Maiphehlo	083 378 8725	phemelo@shuters.com
Western Cape	Colette van der Merwe	071 851 1814	colette@shuters.com
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CUSTOMER SERVICES:

Nhlanhla Zondi	+27 (0) 33 846 8779	nhlanhla@shuter.co.za
Mbali Kunene	+27 (0) 33 846 8722	mbali@shuter.co.za
Thandeka Ngcobo	+27 (0) 33 846 8724	thandeka@shuter.co.za
Zandile Mthethwa	+27 (0) 33 846 8721	zandilem@shuter.co.za
Sylvie Doarsamy	+27 (0) 33 846 8723	sylvie@shuter.co.za

HEAD OFFICE

Tel: +27 (0) 33 846 8721 / 22 / 23 / 24 / 79
Fax: +27 (0) 33 846 8701

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