

**SUGGESTED PLANNING of TEACHING and ASSESSMENT**
**Grade 12 Mathematical Literacy 2021**

TERM 1 46 days	1: W: 2,9 %	2: W: 7,6%	3: W: 12,4 %	4: W: 17,1 %	5: W: 21,9 %	6: W: 26,7 %	7: W: 31,4 %	8: W: 36,1%	9:	10:
CAPS Topic	FINANCE						DATA		REVISION	REVISION
<b>Concepts, skills and values</b>	<b>Financial documents:</b> - Tax - Loans Understand terminology used in: • Workplace and business finance • Tax rate tables, IRP5, employee income tax forms • Loan agreements, statements on loan agreement changes.  Explain how values in the financial docs above have been determined	Taxation - personal income tax, - taxable & non-taxable income, - rebates - UIF (maximum amount) - VAT (14% vs 15%)  Currencies of other countries	<b>Tariff systems:</b> (Compare 2 or more) • Electricity tariffs • Telephone tariffs • Municipal tariffs • Bank tariffs • Transport tariffs  - Tables - Graphs - Formulae	<b>Income, Expenditures, Profit/Loss,</b> (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	<b>Cost Price &amp; Selling Price:</b> -Cost of producing/ manufacturing - Appropriate selling price - Percentage profit  <b>Break-even analysis:</b> (determine break-even values from formulae and graphs)	<b>Developing questions:</b> -National and global issues <b>Collecting data: (not covered in grade 11)</b> -Develop and use data collection instruments. (e.g. interview questions, questionnaires, recording sheets, etc.)  <b>Classifying &amp; Organising Data:</b> -sort numerical and categorical data using categories and class intervals -tallies and frequency tables.	<b>Summarising data:</b> -quartiles -inter-quartile range -calculate and analyse measures of central tendency and spread. -percentiles	TREM 1: FINANCE	TERM 1: DATA	
	CAPS: Pg 49 - 50	CAPS: Pg 58 - 59	CAPS: Pg 50	CAPS: Pg 50 - 52	CAPS: Pg 52 - 53	CAPS: Pg 83	CAPS: Pg 84 - 85			
<b>Requisite pre-knowledge</b>	Revise gr 11-content	Revise gr 11-content reading info from tables.	Revise gr 11-content	Revise gr 11-content	Revise gr 11-content	Revise gr 11-content; Using knowledge of median to determine quartiles				
<b>Resources (other than textbook) to enhance learning</b>	Mind the gap Previous question papers	Mind the gap Previous question papers	Mind the gap Previous question papers	Mind the gap Previous question papers	Mind the gap Previous question papers	Mind the gap Previous question papers	Mind the gap Previous question papers			
<b>Informal assessm; remediation</b>	Worksheet on conversions	Short tests on personal tax	Short tests on tables, graphs and break-even			Worksheet on measures of central tendency and spread				
<b>SBA (Formal Assessment)</b>					<b>INVESTIGATION</b>			<b>TEST</b>		

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TERM 2 54 days	1: W: 40,9 %	2: W: 44,8 %	3: W: 48,6 %	4: W: 53,4 %	5: W: 58,1 %	6: W: 63,0%	7: W: 69,5 %	8: W: 73,3 %	9: W: 78,1 %	10	11
CAPS Topic	DATA	FINANCE			MAPS AND PLANS		MEASUREMENT			REVISION	REVISION
<b>Concepts, skills and values</b>	<p><b>Representing data: (not covered in grade 11)</b></p> <ul style="list-style-type: none"> <li>-pie charts</li> <li>-histograms, bar graphs</li> <li>-line &amp; broken line graphs</li> <li>-scatter plots</li> <li>-box and whisker plots</li> </ul> <p><b>Interpret and analyse data:</b></p> <ul style="list-style-type: none"> <li>-identify &amp; describe trends</li> <li>-identify and describe sources of bias</li> <li>-answer questions under investigation</li> <li>-identify &amp; describe any mis-leading representations</li> <li>-identify &amp; describe any mis-leading data summaries</li> </ul> <p>CAPS: Pg 86 - 88</p>	<p><b>Interest and Banking</b></p> <ul style="list-style-type: none"> <li>- Hire Purchase/ residual/balloon</li> <li>- loans (interest rate, interest, repayment)</li> </ul> <p><b>Note:</b> Can start with Finance in second term</p> <p>CAPS: Pg 54- 57</p>	<p>Banking</p> <ul style="list-style-type: none"> <li>-Investments</li> <li>- Insurance Plans (interest, interest rate, charges, monthly payment)</li> </ul> <p>Inflation</p> <ul style="list-style-type: none"> <li>-buying power over time</li> <li>-prices of items over time (interpret and analyse graphs)</li> </ul> <p>CAPS: Pg 55 - 57</p>	<p>Exchange rates (currency relationships, buying power)</p> <p>Plan trips</p> <p>CAPS: Pg 60</p>	<p><b>SCALE</b></p> <p>Scale (ratio, bar)</p> <ul style="list-style-type: none"> <li>-Determine actual lengths and distances from a given scale</li> <li>-Determine a scale for drawings and/or models</li> <li>- Determine a scale in which to draw diagram or construct a model</li> </ul> <p>CAPS: Pg 73</p>	<p><b>MAPS</b></p> <ul style="list-style-type: none"> <li>-Grid reference</li> <li>-compass directions</li> <li>-slope on map</li> </ul> <p>CAPS: Pg 74 - 75</p>	<p><b>Conversions</b></p> <ul style="list-style-type: none"> <li>- Conversion factors and tables</li> <li>- Metric to imperial and vice versa</li> <li>- °C to °F and vice versa</li> </ul> <p><b>Time</b></p> <p>Timetables, Transport (Bus, Train, Taxi); Production e.g. building a house; Tide</p> <p>Length, distance and time</p> <ul style="list-style-type: none"> <li>-Perimeter</li> <li>-Area</li> <li>- (Cost calculations)</li> </ul> <p>CAPS: Pg 63 - 64; 68 - 70</p>	<ul style="list-style-type: none"> <li>-surface area</li> <li>-Volume</li> <li>-Rate (speed, costing, etc.)</li> <li>- (Cost calculations)</li> </ul> <p>Mass(weight) (cost of a product)</p> <p>BMI (formulae for BMI = kg/m<sup>2</sup>)</p> <p>Interpreting charts</p> <p>CAPS: Pg 65 - 66, 68 - 69</p>	Term 2: FINANCE	Term 2: MEASUREMENT	
<b>Requisite pre-knowledge</b>	Revise gr 11-content	Revise gr 11-content	Revise gr 11-content	Revise gr 11-content	Revise gr 11-content		Revise gr 11-content				
<b>Resources (other than textbook) to enhance learning</b>	Mind the gap Previous question papers	Mind the gap Previous question papers	Mind the gap Previous question papers	Mind the gap Previous question papers	Mind the gap Previous question papers		Mind the gap Previous question papers	Mind the gap Previous question papers			
<b>Informal assessm; remediation</b>	Worksheet on pie charts, histograms, line graphs, scatter plots and box and whisker.	Short test on rates, investments, interest and inflation			Worksheet on scale and maps		Worksheet on conversions	Short tests on area, volume and surface area and BMI			
<b>SBA (Formal Assessment)</b>					<b>ASSIGNMENT</b>						

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TERM 3 53 days	1: W: 82,9 %	2: W: 87,6 %	3: W: 91,4 %	4: W: 95,2%	5: W: 100%	6:	7:	8 - 10: (Gr12)																				
<b>CAPS Topic</b>	<b>MAPS AND PLANS</b>			<b>PROBABILITY</b>		<b>REVISION</b>	<b>REVISION</b>	<b>Internal Examinations</b>																				
<b>Concepts, skills and values</b>	<b>SCALE and PLANS</b> - 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)  CAPS: Pg 73 - 78		<b>MODELS</b> -Solving packaging problems - 3D scale models - 2D pictures (item arrangement, estimate material quantities)  CAPS: Pg 79 - 80	- 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)  CAPS: Pg 91 - 95		Term 2 and 3: MAPS AND PLANS	Term 2: DATA Term 3: PROBABILITY	<table border="1"> <thead> <tr> <th>PAPER 1</th> <th>PAPER 2</th> </tr> </thead> <tbody> <tr> <td><b>150 MARKS; 3 HOURS</b></td> <td><b>150 MARKS; 3 HOURS</b></td> </tr> <tr> <td><b>4 or 5 Questions</b></td> <td><b>4 or 5 Questions</b></td> </tr> <tr> <td><b>Question 1 = 30 marks (Level 1)</b></td> <td><b>Question 1 = 15 marks (Level 1)</b></td> </tr> <tr> <td><b>Question 2, 3 and 4 or 5</b></td> <td><b>Question 2, 3 and 4 or 5</b></td> </tr> <tr> <td><b>Level 1 = 15 marks</b></td> <td><b>Level 1 = 15 marks</b></td> </tr> <tr> <td><b>Level 2 = 45 marks</b></td> <td><b>Level 2 = 45 marks</b></td> </tr> <tr> <td><b>Level 3 = 30 marks</b></td> <td><b>Level 3 = 30 marks</b></td> </tr> <tr> <td><b>Level 4 = 30 marks</b></td> <td><b>Level 4 = 30 marks</b></td> </tr> <tr> <td><b>Finance, Data Handling and Probability</b></td> <td><b>Maps and plans, Measurement and Probability</b></td> </tr> </tbody> </table> <p><b>NB: SECTION IN FINANCE THAT CAN BE EXAMINED IN PAPER 2</b>  <b>Income, Expenditure, Profit/loss, Income-and-Expenditure statements and Budgets, Cost price and Selling price (See Abridged Section 4 amendments).</b></p>	PAPER 1	PAPER 2	<b>150 MARKS; 3 HOURS</b>	<b>150 MARKS; 3 HOURS</b>	<b>4 or 5 Questions</b>	<b>4 or 5 Questions</b>	<b>Question 1 = 30 marks (Level 1)</b>	<b>Question 1 = 15 marks (Level 1)</b>	<b>Question 2, 3 and 4 or 5</b>	<b>Question 2, 3 and 4 or 5</b>	<b>Level 1 = 15 marks</b>	<b>Level 1 = 15 marks</b>	<b>Level 2 = 45 marks</b>	<b>Level 2 = 45 marks</b>	<b>Level 3 = 30 marks</b>	<b>Level 3 = 30 marks</b>	<b>Level 4 = 30 marks</b>	<b>Level 4 = 30 marks</b>	<b>Finance, Data Handling and Probability</b>	<b>Maps and plans, Measurement and Probability</b>
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TERM 4 47 days	1: W: %	2: W: %	3: W: %	4 - 8										
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