

## 2023/24 ANNUAL TEACHING PLANS: MATHEMATICAL LITERACY: GRADE 11 (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
<b>CAPS TOPIC</b>	<b>PATTERNS AND RELATIONSHIPS</b>			<b>MEASUREMENTS</b>				<b>FINANCE</b>		<b>REVISION</b>	
<b>CONCEPTS, SKILLS AND VALUES</b>	<ul style="list-style-type: none"> <li><b>Patterns and Relationships:</b> <ul style="list-style-type: none"> <li>Constant difference (two relationships)</li> <li>Inverse proportion (two relationships)</li> <li>Constant ratio between consecutive terms</li> <li>A combination of any two of the above</li> </ul> </li> <li><b>Representations</b> (two relationships)           <ul style="list-style-type: none"> <li>Equations and formulae</li> <li>Dependent and independent variables</li> <li>Tables and graphs</li> </ul> </li> </ul>		<b>Working with two relationships:</b> Use formulae, equations, tables and graphs to: <ul style="list-style-type: none"> <li>Compare different tariff systems</li> <li>Compare different banking options, etc.</li> </ul>	<ul style="list-style-type: none"> <li><b>Conversions:</b> <ul style="list-style-type: none"> <li>Metric to imperial</li> <li>Temperature (°C to °F and vice versa)</li> </ul> </li> <li><b>Time</b> <ul style="list-style-type: none"> <li>Duration (hours to minutes and vice versa)</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li><b>Conversions:</b> Equivalent proportionality conversions e.g., 5 litre paint covers 20 m<sup>2</sup> 1 teaspoon ≈ 5 ml</li> </ul>	<ul style="list-style-type: none"> <li><b>Measuring &amp; estimating:</b> <ul style="list-style-type: none"> <li>Length</li> <li>Distance</li> <li>Mass, weight</li> <li>Volume</li> <li>Temperature</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li><b>Calculate:</b> <ul style="list-style-type: none"> <li>Perimeter</li> <li>Area (Surface Area)</li> <li>Volume</li> </ul> </li> <li><b>Note:</b> Costs calculations may apply to the above sections.</li> </ul>	<ul style="list-style-type: none"> <li><b>Financial Documents:</b> <ul style="list-style-type: none"> <li>Terminology and calculations of the values on the documents</li> <li>Income (fixed, variable and occasional):</li> </ul> </li> <li><b>Sources of income:</b> <ul style="list-style-type: none"> <li>Personal income (e.g., salaries, wages and commission)</li> <li>Business income (e.g., sales, donations and grants)</li> </ul> </li> <li><b>Expenditure:</b> <ul style="list-style-type: none"> <li>Personal expenditure (e.g., living expenses, personal tax, loan repayments)</li> <li>Business expenditure (e.g., taxes, salaries, running expenses)</li> </ul> </li> </ul>		<ul style="list-style-type: none"> <li><b>Patterns and relationships</b></li> <li><b>Measurement</b></li> <li><b>Finance</b></li> </ul>	
<b>PAGE NO. IN CAPS</b>	Page 38-43		Page 44-46	Page 63, 70		Page 64-69		Page 49			
<b>REQUISITE PRE-KNOWLEDGE</b>	Grade 10 content										
<b>RESOURCES TO ENHANCE LEARNING</b>	<ul style="list-style-type: none"> <li>CAPS document</li> <li>CAPS aligned textbooks</li> <li>Examination guidelines</li> <li>Calculators</li> </ul>			<ul style="list-style-type: none"> <li>CAPS document</li> <li>CAPS aligned textbooks</li> <li>Examination guidelines</li> <li>Calculators</li> <li>Distance:           <ul style="list-style-type: none"> <li>Ruler, tape measure</li> <li>Scales, trundle wheels</li> <li>Odometers</li> </ul> </li> <li>Mass, weight:           <ul style="list-style-type: none"> <li>Bathroom-, kitchen scales</li> <li>Electronic scales</li> </ul> </li> <li>Volume:           <ul style="list-style-type: none"> <li>Spoons, cups</li> <li>Jugs, bottles</li> <li>Buckets, wheelbarrows</li> </ul> </li> <li>Temperature: Thermometer</li> </ul>				<ul style="list-style-type: none"> <li>Pay slips</li> <li>Quotations</li> <li>Invoices</li> <li>Receipts</li> <li>Travel allowance claim forms</li> <li>Banking documents</li> <li>CAPS aligned textbooks</li> <li>Examination guidelines</li> <li>Calculators</li> </ul>			
<b>INFORMAL ASSESSMENT, REMEDIATION</b>	Short tests on equations, tables and graphs			Short test on conversions and time		Worksheet on perimeter, area and volume		Short tests on financial documents			
<b>SBA (FORMAL ASSESSMENT)</b>	<b>INVESTIGATION and CONTROLLED TEST</b>										

## 2023/24 ANNUAL TEACHING PLANS: MATHEMATICAL LITERACY: GRADE 11 (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
<b>CAPS TOPICS</b>	<b>FINANCE</b>			<b>MAPS, PLANS &amp; OTHER REPRESENTATIONS</b>		<b>DATA HANDLING</b>			<b>PROBABILITY</b>	<b>REVISION</b>	
<b>CONCEPTS, SKILLS AND VALUES</b>	<ul style="list-style-type: none"> <li>• <b>Taxation:</b> <ul style="list-style-type: none"> <li>- VAT</li> <li>- UIF</li> </ul> </li> <li>• <b>Exchange rates</b></li> </ul>	<ul style="list-style-type: none"> <li>• <b>Tariff system:</b> <ul style="list-style-type: none"> <li>- Municipal tariffs</li> <li>- Telephone tariffs</li> <li>- Transport tariffs</li> <li>- Bank fees</li> </ul> </li> <li>• <b>Compare two options:</b> <ul style="list-style-type: none"> <li>- Performing calculations</li> <li>- Drawing and interpreting graphs</li> </ul> </li> </ul>		<ul style="list-style-type: none"> <li>• <b>Scales and map:</b></li> <li>• <b>Scales:</b> <ul style="list-style-type: none"> <li>- Number scales</li> <li>- Bar scales</li> </ul> </li> <li>• <b>Maps (directions and point locations):</b> <ul style="list-style-type: none"> <li>- Seating plans</li> <li>- Lay out plan</li> <li>- Street maps</li> <li>- Road and rail maps (national, provincial)</li> <li>- Residential maps etc.</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• <b>Developing questions:</b></li> <li>• <b>Collecting Data:</b> <ul style="list-style-type: none"> <li>- populations and samples, data collection methods and instruments</li> </ul> </li> <li>• <b>Classifying and organising data:</b> <ul style="list-style-type: none"> <li>- Tallies and frequency tables</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• <b>Summarising data:</b> <ul style="list-style-type: none"> <li>- Mean</li> <li>- Median</li> <li>- Mode</li> <li>- Range</li> </ul> </li> <li>Analyse data represented by the above averages</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Representing, interpreting and analysing data:</b> <ul style="list-style-type: none"> <li>- Multiple bar graphs</li> <li>- Line and broken line graph</li> <li>- Scatter plots</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• <b>Simple events:</b> <ul style="list-style-type: none"> <li>- Outcome, event and probability scale (revision)</li> <li>- Relative frequency</li> <li>- Theoretical probability</li> </ul> </li> <li>• <b>Compound Events:</b> <ul style="list-style-type: none"> <li>- Tree diagrams</li> <li>- Two-way tables</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• <b>Finance</b></li> <li>• <b>Maps, plans and other representations</b></li> <li>• <b>Data handling</b></li> <li>• <b>Probability</b></li> </ul>		
<b>PAGE NO. IN CAPS</b>	Page 58	Page 50		Page 73-78		Page 83	Page 84-85	Page 86-88	Page 91-94		
<b>REQUISITE PRE-KNOWLEDGE</b>	Grade 10 content										
<b>RESOURCES (OTHER THAN TEXTBOOK) TO ENHANCE LEARNING</b>	<ul style="list-style-type: none"> <li>• CAPS aligned textbooks</li> <li>• Examination guidelines</li> <li>• Calculators</li> </ul>	<ul style="list-style-type: none"> <li>• Tariffs</li> <li>• CAPS aligned textbooks</li> <li>• Examination guidelines</li> <li>• Calculators</li> </ul>				<ul style="list-style-type: none"> <li>• CAPS aligned textbooks</li> <li>• Examination guidelines</li> <li>• Calculators</li> </ul>			<ul style="list-style-type: none"> <li>• Coins and dice</li> <li>• Games involving coins and dice</li> <li>• Deck of cards</li> <li>• Weather reports</li> </ul>		
<b>INFORMAL ASSESSMENT, REMEDIATION</b>	Short tests on income and expenditure	Short tests on tariff system		Short tests on scales and maps							
<b>SBA (FORMAL ASSESSMENT)</b>	<b>ASSIGNMENT and MID-YEAR EXAMINATION</b>										

## 2023/24 ANNUAL TEACHING PLANS: MATHEMATICAL LITERACY: GRADE 11 (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
<b>CAPS TOPICS</b>			<b>FINANCE</b>			<b>MAPS, PLANS &amp; OTHER REPRESENTATIONS</b>			<b>REVISION AND CONSOLIDATION</b>		
<b>CONCEPTS, SKILLS AND VALUES</b>	<b>Income, expenditures, profit, loss:</b> <ul style="list-style-type: none"> <li>Large organisations and fundraising projects</li> <li>A comparison of income, expenditure, profit values over two years</li> <li>Budgets showing a comparison of projected vs actual, expenditure and profit, loss values</li> </ul>	<b>Cost price &amp; selling price:</b> <ul style="list-style-type: none"> <li>Cost of producing, manufacturing</li> <li>Appropriate selling price</li> <li>Percentage profit</li> </ul>	<b>Break-even analysis:</b> <ul style="list-style-type: none"> <li>Determine break-even values from formulae and graphs</li> </ul>	<b>Interest, loans and banking:</b> <ul style="list-style-type: none"> <li>Interest (Calculate without the use of the formulae): <ul style="list-style-type: none"> <li>Loans</li> <li>Investments</li> <li>Bank accounts</li> </ul> </li> <li>Banking <ul style="list-style-type: none"> <li>Savings account</li> <li>Cheque, current account</li> <li>Fixed deposit account</li> <li>Credit and debit account etc.</li> </ul> </li> <li>Inflation <ul style="list-style-type: none"> <li>Calculation</li> <li>Rate of increase or decrease</li> </ul> </li> </ul>		<ul style="list-style-type: none"> <li><b>Building plans (Scale)</b> <ul style="list-style-type: none"> <li>Housing plans</li> <li>Elevation plans</li> <li>Design drawings</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li><b>Models</b> <ul style="list-style-type: none"> <li>Packaging</li> <li>Use actual cans and a range of actual boxes</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li><b>Finance</b></li> <li><b>Data handling</b></li> <li><b>Measurements</b></li> <li><b>Maps and plans</b></li> </ul>			
<b>PAGE NO. IN CAPS</b>	Page 52-53			Page 54-60		Page 73-78		Page 79-80			
<b>REQUISITE PRE-KNOWLEDGE</b>			Grade 10 content								
<b>RESOURCES TO ENHANCE LEARNING</b>	<ul style="list-style-type: none"> <li>CAPS aligned textbooks</li> <li>Examination guidelines</li> <li>Calculators</li> </ul>	<ul style="list-style-type: none"> <li>CAPS aligned textbooks</li> <li>Examination guidelines</li> <li>Calculators</li> </ul>		<ul style="list-style-type: none"> <li>CAPS aligned textbooks</li> <li>Exam guidelines</li> <li>Calculator</li> <li>Banking: <ul style="list-style-type: none"> <li>Saving accounts</li> <li>Cheque accounts</li> <li>Fixed deposits</li> </ul> </li> <li>Credit accounts with credit card and debit account with debit card</li> </ul>	<ul style="list-style-type: none"> <li>Floor plans elevation and design: <ul style="list-style-type: none"> <li>Rough &amp; scaled floor, layout plans showing a top view perspective</li> <li>Maps</li> </ul> </li> <li>CAPS aligned textbooks</li> <li>Examination guidelines</li> <li>Calculators</li> </ul>	<ul style="list-style-type: none"> <li>CAPS aligned textbooks</li> <li>Examination guidelines</li> <li>Calculators</li> </ul>	<ul style="list-style-type: none"> <li>CAPS aligned textbooks</li> <li>Examination guidelines</li> <li>Calculators</li> </ul>				
<b>INFORMAL ASSESSMENT, REMEDIATION</b>	Short tests on income, expenditure, profit, loss, breakeven analysis					Short tests on scales and maps		Short tests on models and packaging		Worksheets and mock exams	
<b>SBA (FORMAL ASSESSMENT)</b>	<b>ASSIGNMENT and CONTROLLED TEST</b>										

2023/24 ANNUAL TEACHING PLANS: MATHEMATICAL LITERACY: GRADE 11 (TERM 4)

TERM 4	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7-10						
<b>CAPS TOPICS</b>	<b>MAPS, PLANS &amp; OTHER REPRESENTATIONS</b>		<b>REVISION AND CONSOLIDATION</b>			<b>END OF THE YEAR EXAMINATION</b>							
<b>CONCEPTS, SKILLS AND VALUES</b>	<b>Assembling:</b> <ul style="list-style-type: none"> <li>Follow instructions, e.g.:                             <ul style="list-style-type: none"> <li>Plugs</li> <li>Plastic models</li> <li>Unassembled wooden furniture</li> <li>Cell phones</li> <li>Electrical appliances</li> <li>Children's toys</li> </ul> </li> </ul>		<ul style="list-style-type: none"> <li>Finance</li> <li>Data handling</li> <li>Probability</li> </ul>		<ul style="list-style-type: none"> <li>Measurement</li> <li>Maps, plans and other representations of the physical world.</li> <li>Probability</li> </ul>		Guidelines for final examinations: <b>FINAL EXAMINATION (two papers)</b> <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>100 MARKS: 2 HOURS</td> <td>100 MARKS: 2 HOURS</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 &amp; plans and measurements and probability                         </td> </tr> </tbody> </table>	PAPER 1	PAPER 2	100 MARKS: 2 HOURS	100 MARKS: 2 HOURS	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
PAPER 1	PAPER 2												
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<b>PAGE NO. IN CAPS</b>	CAPS: Page 79-80												
<b>PRE-REQUISITE KNOWLEDGE</b>	Grade 10 content												
<b>RESOURCES TO ENHANCE LEARNING</b>	<ul style="list-style-type: none"> <li>CAPS aligned textbooks</li> <li>Examination guidelines</li> <li>Calculators</li> </ul>					<ul style="list-style-type: none"> <li>CAPS aligned textbooks</li> <li>Examination guidelines</li> <li>Calculators</li> </ul>							
<b>INFORMAL ASSESSMENT, REMEDIATION</b>	Practical test on how to assemble a product					<ul style="list-style-type: none"> <li>Worksheets and mock exams</li> </ul>							
<b>SBA (FORMAL ASSESSMENT)</b>	NO SBA TASK FOR TERM 4												