2023/24 ANNUAL TEACHING PLANS: MATHEMATICAL LITERACY: GRADE 12 (TERM 1)

basic education

Department:
Basic Education
REPUBLIC OF SOUTH AFRICA

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	FINANCE					DATA HANDLING			PROBABILITY	FINANCE	
CONCEPTS, SKILLS, AND VALUES	**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.)	**Taxation:** • Personal income tax, • Taxable & non-taxable income, • Rebates • UIF (maximum amount) • VAT (15%)	**Tariff systems:** (Compare 2 or more) • Electricity tariffs • Telephone tariffs • Municipal tariffs • Bank tariffs • Transport tariffs • Tables • Graphs • Formulae	**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	**Cost price & selling price:** Cost of producing, manufacturing • Appropriate selling price • Percentage profit • Break-even analysis: • (Determine break-even values from formulae and graphs)	**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 intervals tallies and frequency tables.	**Summarising data:** Quartiles • 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:** • 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	**Interest and Banking:** • Hire purchase, residual, balloon • Loans • Interest rate, interest, repayment	**Banking:** • Investments • Insurance Plans • (Interest, interest rate, charges, monthly payment) **Inflation:** • Buying power over time • Prices of items over time • (Interpret and analyse graphs • Exchange rates • Currency relationships, buying power
PAGE NO. IN CAPS	Page 49-50	Page 58-59	Page 50	Page 50-52	Page 52-53	Page 86-88			Page 91	Page 54- 57	Page 55-57
PRE-REQUISITE KNOWLEDGE	Grade 11 content										
RESOURCES TO ENHANCE LEARNING	CAPS document CAPS aligned textbooks Examination guidelines Mind the gap DBE self-study guides DBE terminology booklet										
INFORMAL ASSESSMENT, REMEDIATION	Short tests on tables, graphs and break even	Short tests on personal tax	Short test on tariffs	Short tests on income, expenditure, profit, loss, break-even analysis				Short tests on data: Pie charts, histograms, line graphs, scatter plots and box and whisker			
SBA (FORMAL ASSESSMENT)	INVESTIGATION AND CONTROLLED TEST										

2023/24 ANNUAL TEACHING PLANS: MATHEMATICAL LITERACY: GRADE 12 (TERM 2)

TERM 2	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8 TO 11	
CAPS TOPIC	MEASUREMENT				MAPS, PLANS & OTHER REPRESENTATIONS OF THE PHYSICAL WORLD		REVISION	INTERNAL EXAMINATIONS	
CONCEPTS, SKILLS, AND VALUES	**Conversions:** • Conversion factors and tables • Metric to imperial and vice versa • ᵒC to ᵒF 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		**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	**Maps** • Grid reference • Compass directions • Slope on map	**Finance** • Data handling • Measurements • Scale and maps	Notes on or guidelines for mid-year examinations – two papers **PAPER 1** / **PAPER 2** **100 MARKS: 2 HOURS** / **100 MARKS: 2 HOURS** **Question 1: 20% (level 1)** / **Question 1 = 20% (level 1)** **Question 2: Finance** / **Question 2: Maps and Plans** **Question 3: Data Handling** / **Question 3: Measurements** **Question 4 – 5: Integration of finance, data handling and probability** / **Question 4 – 5: Integration of maps & plans and measurements and probability**	
PAGE NO. IN CAPS	Page 63, 70	Page 64, 68-69	Page 65-66, 68-69		Page 73	Page 74-75			
PRE-REQUISITE KNOWLEDGE	Grade 11 content								
RESOURCES TO ENHANCE LEARNING	CAPS document CAPS aligned textbooks Examination guidelines Mind the gap DBE Self-study guides DBE Terminology booklet								
INFORMAL ASSESSMENT, REMEDIATION	Worksheet on conversions	Short tests on area, volume and surface area and BMI			Worksheet on scale and maps				
SBA (FORMAL ASSESSMENT)	ASSIGNMENT AND MID-YEAR EXAMINATIONS								

2023/24 ANNUAL TEACHING PLANS: MATHEMATICAL LITERACY: GRADE 12 (TERM 3)

TERM 3	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8 TO 11
CAPS TOPIC	MAPS, PLANS & OTHER REPRESENTATIONS OF THE PHYSICAL WORLD					REVISION		PREPARATORY EXAMINATIONS
CONCEPTS, SKILLS, AND VALUES	**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)			**Models:** • Solving packaging • problems • 3D scale models • 2D pictures (Item arrangement, estimate material quantities)		• Finance • Data handling • Probability	• Measurements • Maps and plans • Probability	**Notes on or guidelines for preparatory examinations – two papers**
CAPS	Page 73-78			Page 79-80				
REQUISITE PRE-KNOWLEDGE	Grade 11 content							
RESOURCES TO ENHANCE LEARNING	CAPS document CAPS aligned textbooks Examination guidelines Mind the gap DBE self-study guides DBE terminology booklet							
INFORMAL ASSESSMENT, REMEDIATION	Worksheet on plans and models							
SBA (FORMAL ASSESSMENT)	CONTROLLED TEST AND PREPARATORY EXAMINATION							

Notes on or guidelines for preparatory examinations – two papers

PAPER 1	PAPER 2
150 MARKS: 3 HOURS	**150 MARKS: 3 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**

2023/24 ANNUAL TEACHING PLANS: MATHEMATICAL LITERACY: GRADE 12 (TERM 4)

TERM 4	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5 TO 10	
CAPS TOPIC	REVISION				FINAL EXAMINATION	
CONCEPTS, SKILLS, AND VALUES	• Finance • Data handling • Measurements • Maps and plans • Probability	• Finance • Data handling • Measurements • Maps and plans • Probability	• Finance • Data handling • Measurements • Maps and plans • Probability	• Finance • Data handling • Measurements • Maps and plans • Probability	**Notes on or guidelines for final examination – two papers**	
					PAPER 1	**PAPER 2**
					150 MARKS: 3 HOURS	**150 MARKS: 3 HOURS**
REQUISITE PRE-KNOWLEDGE	Grade 11 content				**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**
RESOURCES TO ENHANCE LEARNING	CAPS document CAPS aligned textbooks Examination guidelines Mind the gap DBE self-study guides DBE terminology booklet					
INFORMAL ASSESSMENT, REMEDIATION	Revise exemplar papers and previous NSC question papers					
SBA (FORMAL ASSESSMENT)	**No SBA task for term 4**					