

MATHEMATICAL LITERACY

Dear Grade 12 Mathematical Literacy learner

Mathematical Literacy is intended to equip you with the knowledge and skills you need in dealing with real-life problems. The skills and knowledge you will master are drawn from the pure Mathematical knowledge you learned in previous grades. Real-life problems you may encounter are organised into FIVE topics, namely:

- finance
- measurement
- maps, plans and other representations of the physical world
- data handling and
- probability.

Subject Requirements

- ☐ A textbook and exam study guide
- ☐ A calculator

Content Checklist

The checklist below gives a summary of content you will cover in each of the topics.

1. Finance

- ☐ Financial documents
- ☐ Tariff systems
- ☐ Income/expenditure, profit/loss, budgets
- ☐ Cost price and selling price
- ☐ Break-even analysis
- ☐ Interest
- ☐ Banking, loans and investments
- ☐ Inflation
- ☐ Taxation
- ☐ Exchange rates

2. Measurement

- ☐ Unit conversions
- ☐ Length
- ☐ Weight
- ☐ Perimeter
- ☐ Area
- ☐ Volume
- ☐ Temperature
- ☐ Time

3. Maps, plans and other representations of the physical world

- ☐ Maps
- ☐ Scale
- ☐ Plans
- ☐ Models

4. Data handling

- ☐ Data collection
- ☐ Data classification
- ☐ Data organisation
- ☐ Summarising data
- ☐ Data representation
- ☐ Interpret and analyse data

5. Probability

- ☐ Expressions of probability
- ☐ Prediction
- ☐ Probability of simple events
- ☐ Probability of compound events

Assessment

Throughout the year you will complete a minimum of SEVEN assessment tasks. Marks obtained in these tasks make up your final school-based assessment (SBA) mark. The SBA mark makes 25% of your final mark in the subject. The remaining 75% comes from your external exam mark.

TERM	GRADE 12	
1	Investigation	Minimum of 50 marks for each task
	Control Test 1	Minimum of 50 marks
2	Assignment	Minimum of 50 marks
	Paper 1 2 hours (100 marks)	Paper 2 2 hours (100 marks)
3	Control Test	Minimum of 50 marks
	PRELIM EXAMINATION	
	Paper 1 3 hours (150 marks)	Paper 2 3 hours (150 marks)
4	EXTERNAL EXAMINATIONS	
	Paper 1 3 hours (150 marks)	Paper 2 3 hours (150 marks)
Total: SBA + External examination = 400		

Examinations

Mathematical Literacy examination consist of two papers (150 marks each). For both papers, about 30% of questions (45 marks) are all easy questions and test your ability to perform basic mathematical calculations in familiar context. 30% of the remaining questions test your ability to do 2-step or 3-step context-based questions. The rest, 40%, of the questions will test your ability to use mathematical and non-mathematical knowledge to solve problems in both familiar and non-familiar contexts.

Paper 1: The following context are covered in paper 1: Finance, Data and Probability.

Paper 2: The following context are covered in paper 2: Measurement, Maps and Plans and Probability.

PAPER 1	PAPER 2
Finance 60% (±5) Data Handling 35% (±5) Probability 5% Including Growth Charts (CAPS page 65) assesses application of measures of spread in data handling.	Maps, plans and other representation of the physical world 40% (±5) Measurement 55% (±5) Probability 5% Including ±5% (Income, Expenditure, Profit/loss, Income-and-Expenditure statements and Budgets, Cost price and Selling price) where there is direct link to Measurement and Maps and Plans.
Question 1: 30 marks ± 5 marks Level 1 questions from Finance and Data Handling Question 2: Finance Question 3: Data Handling Question 4: Integrated context on Finance and Data Handling Including Growth Charts (CAPS page 65) assesses application of measures of spread in data handling. Question 5: Finance, data handling or integrated question Probability will be examined in the context of one or more of the other questions. Each question can contain more than one context.	Question 1: 30 marks ± 5 marks Level 1 questions from Measurement and Maps, plans Question 2: Maps and plans Question 3: Measurement Question 4: Integrated context on Measurement and Maps and plans Including (Income, Expenditure, Profit/loss, Income-and-Expenditure statements and Budgets, Cost price and Selling price) where there is direct link to Measurement and Maps and Plans. Question 5: Measurement, maps and plans or integration Probability will be examined in the context of one or more of the other questions. Each question can contain more than one context.

N.B: EACH PAPER MAY HAVE 4 OR 5 QUESTIONS

Mathematical Literacy Study Guide 2014

**Gloria Ann Stillman, Werner
Blum, Gabriele Kaiser**



Mathematical Literacy Study Guide 2014:

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