## 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 <br> - 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 |  |
| :---: | :---: | :---: |
| $\mathbf{1}$ | Investigation | Minimum of 50 marks for each task |
|  | Control Test 1 | Minimum of 50 marks |
|  | Assignment | Minimum of 50 marks |
|  | Paper 1 <br> 2 hours (100 marks) | Paper 2 <br> 2 |
| $\mathbf{3}$ | Control Test | Mours (100 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\% ( $\pm 5$ ) <br> Data Handling 35\% ( $\pm 5$ ) <br> Probability 5\% <br> 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\% ( $\pm 5$ ) <br> Measurement 55\% ( $\pm 5$ ) <br> Probability 5\% <br> Including $\pm 5 \%$ (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 $\pm 5$ marks Level 1 questions from Finance and Data Handling <br> Question 2: Finance <br> Question 3: Data Handling <br> Question 4: Integrated context on Finance and Data Handling Including Growth Charts (CAPS page 65) assesses application of measures of spread in data handling. <br> Question 5: Finance, data handling or integrated question <br> Probability will be examined in the context of one or more of the other questions. <br> Each question can contain more than one context. | Question 1: 30 marks $\pm 5$ marks <br> Level 1 questions from Measurement and Maps, plans <br> Question 2: 'Maps and plans <br> Question 3: Measurement <br> Question 4: Integrated context on 'Measurement and Maps and plans Including (Income, Expenditure, Profit/loss, Income-andExpenditure statements and Budgets, Cost price and Selling price) where there is direct link to Measurement and Maps and Plans. <br> Question 5: Measurement, maps and plans or integration <br> Probability will be examined in the context of one or more of the other questions. <br> Each question can contain more than one context. |
| N.B: EACH PAPER MAY HAVE 4 OR 5 QUESTIONS |  |

