**MATHEMATICS LESSON PLAN**

**GRADE 7**

**TERM 1: January – March**

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| **PROVINCE:** |  |
| **DISTRICT:** |  |
| **SCHOOL:** |  |
| **TEACHER’S NAME:** |  |
| **DATE:** |  |
| **DURATION**: | 1 Hour |

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| 1. **TOPIC: WHOLE NUMBERS: Solving problems (Lesson 9)** |

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| 1. **CONCEPTS & SKILLS TO BE ACHIEVED:**   **By the end of the lesson, learners should be able to solve problem that involve whole number, percentages and decimal fraction in financial context such as:**  - loans  - simple interest |

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| 1. **RESOURCES:** | Sasol-Inzalo Book, DBE workbook 1, Textbooks and calculator |
| 1. **PRIOR KNOWLEDGE:** | * Multiplication and division of whole numbers * Sharing in a given ratio where the whole is given * Calculate percentage of a whole numbers * Decimal fractions |
| 1. **REVIEW AND CORRECTION OF HOMEWORK** (suggested time: 10 minutes)   Homework provides an opportunity for teachers to track learners’ progress in the mastery of mathematics concepts and to identify the problematic areas which require immediate attention. Therefore it is recommended that you place more focus on addressing errors from learner responses that may later become misconceptions. | |

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| * **INTRODUCTION** (Suggested time: 10 Minutes)   Revise the concepts using Mental maths type questions to include:   * Profit, loss and discount * Budget * accounts |

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| 1. **LESSON PRESENTATION/DEVELOPMENT** (Suggested time: 20 minutes) | |
| **Teaching activities** | **Learning activities**  (Learners are expected to: |
| Activity 1  Work through the following activities with learners  Explain that interest is the cost of borrowing other people’s money. You can also earn interest in the bank if you deposit your money in a bank but if you borrow money from the bank you will have to pay interest.  Simple interest is calculated as a percentage of the amount of money you have borrowed or saved. Calculated on the original amount of money that was borrowed or saved.  In grade 7 a formula is NOT USED.  Activity 1  A man invests R7 500 at 9% simple interest for four years. Calculate how much his investment is worth at the end of the time  Solution:  OR      **For 3 years**    Amount = R7 500 + R2 025 R9 525  Activity 2.  Kevin invest R8 000 at Finance Worth for period of two years at 5% simple interest per year.   1. Calculate how much money he will have after two years. 2. How much interest will he receive?   Activity 3  Find the amount payable monthly for a loan of R7000 over 36 months.   |  |  |  |  | | --- | --- | --- | --- | | Loan amount | Repayment 24 months | Repayment 36 months | Repayment 48 months | | R2000 | R118.00 | R96.00 | R89.32 | | R7000 | R305.00 | R270,00 | R200,29 |  1. Calculate the total repayment amount by multiplying the number of   months by the monthly repayments.   1. Calculate the interest   Solution:   1. Payment = R240/month   Total payment amount = 36 = R9 720   1. Interest paid = R9 720 – R7000 = R2 720   He/ she pay R2 720 interest on an amount of R7000 over 36 months. | * discuss in pairs and give their example * Work in pairs, give and discuss the answer * Listen, ask questions and work out their examples * Work, work in pairs and discuss the account |

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| 1. **CLASSWORK** (Suggested time: 15 minutes |
| |  |  |  | | --- | --- | --- | | Sasol-Inzalo Book | DBE Workbook | Textbook | |  | Page 24 No.1 – 2 |  | |

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| 1. **CONSOLIDATION/CONCLUSION & HOMEWORK (Suggested time: 5 minutes)** |
| 1. Emphasise:  * The understanding of key words like simple interest, loans and rate  1. The primary purpose of Homework is to give each learner an opportunity to demonstrate mastery of mathematics skills taught in class. Therefore Homework should be purposeful and the principle of ‘Less is more’ is recommended, i.e. give learners few high quality activities that address variety of skills than many activities that do not enhance learners’ conceptual understanding.   Carefully select appropriate activities from the Sasol-Inzalo books, workbooks and/or textbooks for learners’ homework. The selected activities should address different cognitive levels.  **Recommended Homework**:   |  |  |  | | --- | --- | --- | | Sasol-Inzalo Book | DBE Workbook | Textbook | |  | Pg 25 No 3 |  | |