**MATHEMATICS LESSON PLAN**

**GRADE 8**

**TERM 2: APRIL – JUNE**

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

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| 1. **TOPIC: ALGEBRAIC EXPRESSIONS:** EXPAND AND SIMPLIFY ALGEBRAIC EXPRESSIONS **(Lesson 8)** |
| 1. **CONCEPTS & SKILLS TO BE ACHIEVED:**   **By the end of the lesson learners should know and be able to** use commutative, associative and distributive laws for rational numbers and laws of exponents to determine the numerical value of algebraic expressions by substitution. |

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| 1. **RESOURCES:** | DBE Workbook 1, Sasol-Inzalo Workbook 1, Textbooks, Calculator. |
| 1. **PRIOR KNOWLEDGE** | * perimeter * decimal fractions * adding like term * multiplication * addition * subtraction |
| 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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| 1. **INTRODUCTION** (Suggested time: 10 Minutes)   Let learners work in pairs and discuss and complete the following problem.  A certain Spaza shop sells the following items to a school. Study the table and answer the questions below:   |  |  | | --- | --- | | Item | Selling Price in Rand | | Packet Chips |  | | 250 *ml* Juice |  | | Ice cream cone |  | | Burger |  | | Pie |  |  1. How much would it cost to buy a packet of chips and a juice if an ice cream cone cost R2,50? 2. What will you pay if you buy a burger, a pie and a juice? | |
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| 1. **LESSON PRESENTATION/DEVELOPMENT** (Suggested time: 20 minutes) | |
| **Teaching activities** | **Learning activities** |
| **Activity 1**  Let learners discuss and complete the following activities in pairs.   1. When Thabang was asked to evaluate the expression for , she wrote the following:   Hence for :   1. Discuss Thabang’s approach. Is her method correct? Is her answer correct? Justify your argument.   **Activity 2**   1. Write an expression for the perimeter of a rectangle with length cm and breath . 2. Calculate the perimeter if |  |

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| 1. **CLASSWORK** (Suggested time: 15 minutes) |
| Sasol-Inzalo Book 1, pg. 114 no 1; pg. 115 no. 2 – 5. |

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| 1. **CONSOLIDATION/CONCLUSION & HOMEWORK** (Suggested time: 5 minutes) |
| 1. **Emphasise that**:  * an expression can have like and unlike terms * like terms are terms that have the same variable(s) raised to the same power * only like terms can be added or subtracted  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 workbooks, DBE workbooks and/or textbooks for learners’ homework. The selected activities should address different cognitive levels.  **Recommended Homework:**  Sasol-Inzalo Book 1, pg. 116, no. 6 - 9 |