**MATHEMATICS LESSON PLAN**

**GRADE 7**

**TERM 3: July– September**

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

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| 1. **TOPIC: ALGEBRAIC EXPRESSIONS**: Algebraic language **(Lesson 2)** |
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| 1. **CONCEPTS & SKILLS TO BE ACHIEVED:**   **By the end of the lesson learners should know and be able to identify variables and constants in given formulae and equations.** |

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| 1. **RESOURCES:** | Textbooks, DBE Workbook 2, Sasol-Inzalo Book 2,worksheets |
| 1. **PRIOR KNOWLEDGE:** | * whole numbers * patterns * functions and relationships * algebraic expressions |
| 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. | |
| 1. **INTRODUCTION** (Suggested time: 10 Minutes) | |
| Lead learners to respond on the questions below.  Activity   1. Express the following as algebraic expressions 2. Half the input number plus 2. 3. Multiply the sum of input number and 3 by 10. 4. How many terms does each of the following algebraic expressions have: | |

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| 1. **LESSON PRESENTATION/DEVELOPMENT** (Suggested time: 20 minutes) | |
| **Teaching activities** | **Learning activities** |

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| Allow learners to work on the activities in groups.  Activity 1  Consider the sequence below and answer the questions that follow:  1; 3; 5;7; …   1. Write the general rule for the pattern. 2. Use the rule to determine the 5th ,6th,and 7th term. 3. Which number is not changing? 4. What does n represent?   Activity 2  Consider the flow diagram below :  -3   1. Which numbers are not changing? 2. What does represent on the rule?   Consolidating by indicating that:   1. Numbers which are not changing are called **constants.** ( -9 and 1) 2. Letter in the place of a number is called a **variable**. and are variables.   Activity 3  Identify the variable (s) in the following algebraic expressions.  Activity 4  Identify the constant terms in the following algebraic expressions   1. Twelve less than a certain number. 2. The product of four and a certain number. | Do the activities in groups and share hir responses with other groups. |

-9

-1

Input value

Rule

Output value

-4

-2

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| 1. **CLASS WORK** (Suggested time : 15 minutes) |
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| 1. **CONSOLIDATION/CONCLUSION & HOMEWORK** (Suggested time: 5 minutes) |
| 1. **Emphasise that**:  * constants are the terms that do not change. * a variables are the letters in the place of numbers. * a variable is a letter or symbol that represents a number (unknown quantity).  1. Homework:     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:** |