**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: EXPONENTS:** Calculations using numbers in exponential form**(Lesson 6)** |
| 1. **CONCEPTS & SKILLS TO BE ACHIEVED:**   **By the end of the lesson learners should know and be able to** perform calculations involving all four operations using numbers in exponential form, limited to exponents up to 5, and square and cube roots. |

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| 1. **RESOURCES:** | Sasol-Inzalo Book 1. DBE workbook 1 ,Textbooks |
| 1. **PRIOR KNOWLEDGE** | * Exponential form * Square numbers * Expanded notation of squares numbers |
| 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)   The teacher revises exponents and square roots   1. 10 10 | |

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| 1. **LESSON PRESENTATION/DEVELOPMENT** (Suggested time: 20 minutes) | |
| **Teaching Activities** | **Learning Activities**  **Learners are expected to:** |
| **Activity 1**  Work with learners through the following activity   1. Calculate the answer using number in exponential form.   Solution: | * work in small groups and discuss the answers * work in small groups, discuss and find the solution |

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| 1. **CLASSWORK** (Suggested time: 15 minutes) |
| Calculate  a. + -  b. ÷  c. |

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| 1. **CONSOLIDATION/CONCLUSION &HOMEWORK**(Suggested time: 5 minutes) |
| 1. Emphasise that**:**  * = = 5 NOT = + = 4 + 3 = 7  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, workbooks and/or textbooks for learners’ homework. The selected activities should address different cognitive levels.   **Recommended Homework**   |  |  |  | | --- | --- | --- | | Sasol-Inzalo Book | DBE workboolTextbook | Textbook | | Pg 73 No 3 (d – e) |  |  | |