**MATHEMATICS LESSON PLAN**

**GRADE 9**

**TERM 1: January – March**

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

|  |
| --- |
| 1. **TOPIC: COMMON FRACTIONS: Calculations using fractions** (Lesson 3) |
| 1. **CONCEPTS & SKILLS TO BE ACHIEVED:**   **By the end of the lesson, learners should know and be able to perform** all four operations, with numbers that involve the squares, cubes, square roots and cube roots of common fractions |

|  |  |  |
| --- | --- | --- |
| 1. **RESOURCES:** | Textbooks, DBE workbook and Sasol-Inzalo book | |
| 1. **PRIOR KNOWLEDGE:** | * squares * cubes * square roots * cube * prime factors | |
| 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) | | |
| **Activity**  Match the fractions in column A with column B   |  |  | | --- | --- | | **Column A** | **Column B** | |  |  | |  |  | |  |  | |  |  |   **Note:** Highlight the use of squares, cubes, square roots and cube roots in engineering fields or any other. | | |
| 1. **LESSON PRESENTATION/DEVELOPMENT** (Suggested time: 20 minutes) | | |
| **Teaching activities** | | **Learning activities (Learners are expected to:)** |
| Group learners into small groups  **Activity 1**  Simplify the following showing calculations: | | * Answer probing questions asked by the teacher and also copy down the examples onto their books. |

|  |
| --- |
| 1. **CLASSWORK** (Suggested time: 15 minutes) |

Calculate:



|  |
| --- |
| 1. **CONSOLIDATION/CONCLUSION & HOMEWORK** (Suggested time: 5 minutes) |
| 1. **Emphasise that:**  * = * = and 0      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 book, workbooks and/or textbooks for learners’ homework. The selected activities should address different cognitive levels.   **Recommended Homework**  Sasol-Inzalo book:   * pg.54 no. 1a; 1e) and.2d) * pg.55 no. 4c   DBE workbook:   * pg. 28 - 29 |