**MATHEMATICS LESSON PLAN**

**GRADE 8**

**TERM 1: January – March**

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

|  |
| --- |
| 1. **TOPIC: INTEGERS: Properties of integers (Lesson 7)** |

|  |
| --- |
| 1. **CONCEPTS & SKILLS TO BE ACHIEVED:**   **By the end of the lesson learners should know and be able to recognise and use** **commutative, associative and distributive properties of addition and multiplication for integers.** |

|  |  |
| --- | --- |
| 1. **RESOURCES:** | Textbooks, DBE workbook 1, Sasol-Inzalo Book 1 |
| 1. **PRIOR KNOWLEDGE:** | * perform basic calculations with integers. * recall the order of operations |
| 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) | |
| Remind learners of the following:   1. When you add or multiply integers, the order of the numbers doesn’t matter:   and  and   1. When you apply associative property, you can group integers in different ways when   you add or multiply. Changing the grouping does not affect the answer  and  and   1. When applying the distributive property, each number in the brackets is affected: 2. Simplify :       )    11  **Note**: Explain to learners how to apply distributive property in each step. | |

|  |  |
| --- | --- |
| 1. **LESSON PRESENTATION/DEVELOPMENT** (Suggested time: 20 minutes) | |
| **Teaching activities** | **Learning activities**  **(Learners are expected to :))** |
| ACTIVITY 1  Allow learners to discover the commutative property of integers for addition and multiplication through examples.       Solutions | complete the activity below: |
| ACTIVITY 2  Allow learners to discover the associative property of integers for addition and multiplication through examples.  SOLUTIONS | do the following activity:  Sasol-Inzalo Book 1 p 45 no. 2 ( a) to (b)  and no. 5 (a) to (e). |
| ACTIVITY 3  Allow learners to discover the distributive property of integers for multiplication through examples.  Solution | do the following problems |

|  |
| --- |
| 1. **CLASSWORK** (Suggested time: 15 minutes)   Calculate the following:  Sasol-Inzalo Book 1 p 40 no. 4 and p 41 no. 8 |
| 1. **CONSOLIDATION/CONCLUSION & HOMEWORK** (Suggested time: 5 minutes) 2. **Emphasise that** learners should be able to recognize each property in order to apply it effectively when solving problems. 3. **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. |