**MATHEMATICS LESSON PLAN**

**GRADE 7**

**TERM 4: October – December**

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

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| 1. **TOPIC: PROBABILITY:** Probability(lesson 4) |
| 1. **CONCEPTS & SKILLS TO BE ACHIEVED:**   **By the end of the lesson learners should know and be able to** perform simple experiments where the possible outcomes are equally likely and   * List the possible outcomes based on the conditions of the activity * determine the probability of each possible outcome, using the definition of probability |

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| 1. **RESOURCES:** | Textbooks, DBE Workbook2, Sasol-Inzalo Book2, spinner |
| 1. **PRIOR KNOWLEDGE:** | * probability of words * outcomes * prime 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 leads learners to answer the questions below:  Activity  What is the probability of getting each letter in a word’ **MATHEMATICS**’?   1. A 2. C 3. T 4. M 5. E 6. I 7. S 8. H | |

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| 1. **LESSON PRESENTATION/DEVELOPMENT** (Suggested time: 20 minutes) | |
| **Teaching activities** | **Learning activities (Learners are expected to:)** |
| Activity 1   * The educator takes learners through an activity where a spinner is divided into 8 equal sections from 1 to 8 and asks questions.   **8**  **6**  **7**  **1**  **5**  **2**  **4**  **3**   1. How many possible outcomes are in the spinner? 2. What is the probability of getting 5 at any one spin? 3. Write the answer in (b) as percentage. 4. What is the probability of getting a prime number at a particular spin? 5. Write the answer in (d) as a decimal fraction. 6. What is the probability of getting an even number at a particular spin?   Activity 2  A spinner was spun 50 times and the results of each outcome are recorded in the table below.  Complete the table by writing the probability for each outcome.   |  |  |  | | --- | --- | --- | | **Outcome** | Frequency | Probability of outcomes | | 1 | 7 |  | | 2 | 9 |  | | 3 | 5 |  | | 4 | 4 |  | | 5 | 11 |  | | 6 | 6 |  | | 7 | 3 |  | | 8 | 5 |  |      * Educator consolidates the lesson. | * Learners respond to questions     Respond to questions |
| 1. **CLASSWORK** (Suggested time: 15 minutes) | | |
| DBE workbook 2 pg 174 No.1(a) | | |
| 1. **CONSOLIDATION/CONCLUSION & HOMEWORK** (Suggested time: 5 minutes) | | |
| 1. **Emphasise that**:  * All possible outcomes lie between 0 and 1 in a probability scale. * Probability of any outcome is based on the total number of possible outcomes. * Probability can be represented in a probability scale in a form a common fraction, percentage and decimals      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 books, workbooks and/or textbooks for learners’ homework. The selected activities should address different cognitive levels.  **Homework:**  DBE workbook 2 pg 174 No.1(b) | | |