**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: DATA HANDLING: Collect, organise and summarise** (**Lesson 1**) |

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| 1. **CONCEPTS & SKILLS TO BE ACHIEVED**   **By the end of the lesson learners should know and be able to :**   * pose questions relating to social, economic and environment issues * select appropriate sources * distinguish between samples and populations * design and use simple questionnaires   **define terms:**   * population * sources * sample |

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| 1. **RESOURCES:** | DBE workbook, Sasol-Inzalo workbook, textbook |
| 1. **PRIOR KNOWLEDGE:** | **KEYWORDS:**  Data  Sample  Population  Questionnaires  Source |
| 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 : 5 minutes)**   Data handling is the part of Mathematics that deals with numbers and facts that we  collect about the world around us. Data can be many different things, for example  people’s opinions on politics or the success rates of treating people with a certain kind  of medicine. We use data to help us make decisions and solve problems about the  world around us. | |

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| 1. **LESSON PRESENTATION/DEVELOPMENT** (Suggested time: 20 minutes) | |
| **Teaching activities** | **Learning activities**  **(Learners are expected to :)** |
| The teacher explains to the learners that:  **Data** - is the gathering, recording and presenting of information in number  form.  **Example:**  Thabo wants to know the most popular sport for grade 7 learners of his school Progress Primary School. The school has 120 grade 7 learners. He has decided to question 60 learners from the three classrooms*.*    The teacher asks the learners probing questions to assist them to think appropriately. Together with the learners, the teacher develop questionnaires as per the table below:   |  |  | | --- | --- | | **Question/s** | **Yes/No response** | | Do you take part in sport? |  | | Do you watch your favourite sport on TV? |  | | Is one of these sporting codes your favourite sport? |  | | 1. soccer |  | | 1. Rugby |  | | 1. Netball |  | | 1. Cricket |  | | None of these sporting codes is my favourite? |  |   In conclusion the teacher explains these terms:  **Sample:**  refers to a small number of the group that you think will  represent the whole group.  **Population:** it is the entire group from which we need to collect data  use as a source of information in a specific study.  **Source:** is the small group of people, object and so on, chosen from a  given population to represent the whole population in finding  information on a certain research collecting the data.  **Questionnaire**: is a list of simple relating questions that some selected  or group of candidates will have to answer. | Listen, observe and take notes |

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| 1. **CLASSWORK** (Suggested time: 20 minutes) |
| * **Classwork:**   Educator instructs learners to do the following activities in class: Can be done individually so that the educator can determine which learners are still experiencing any challenges. Educator needs to move and observe while this activity is in progress. Time management is important.  Create a questionnaire for learners at your school. The respondent must indicate what colour of T-shirt he or she prefers and the size of a T-shirt. (S; M; L; XL) |
| 1. **CONSOLIDATION/CONCLUSION & HOMEWORK** (Suggested time: 5 minutes) |
| 1. **Emphasise that**:   **Data**: it is numbers, information and facts gathered for specific purpose.  **Population:** it is the entire group from which we need to collect data use as a source of  information in a specific study.  **Sample:** is the small group of people, object and so on, chosen from a given population to  represent the whole population in find information on a certain research collecting the  data.   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, DBE workbooks and/or textbooks for learners’ homework. The selected activities should address different cognitive levels.  **Questionnaire:** is the list of simple relating questions that some selected or group of candidates  will have to answer. |

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| **Homework**  DBE Work Book 2 page 139 no 6 and Sasol-Inzalo book 2 page 171 no 3 |