**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 3**) 2. **CONCEPTS & SKILLS TO BE ACHIEVED** | |
| **By the end of the lesson learners should know and be able to :**  Group data in intervals and determine:   * Mean * Median * Mode | |
| 1. **RESOURCES:** | | DBE workbook, Sasol-Inzalo workbook, Any Maths textbook Grade 7, NCS CAPS Senior Phase Grade 7-9 | |
| 1. **PRIOR KNOWLEDGE:** | | Interval; mean; median; mode; range | |
| 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)**   **Activity 1**  These are the test results of 20 leaners presented in a stem and leaf   |  |  | | --- | --- | | STEM | LEAF | | 2 | 5 | | 3 | 0 | | 4 | 5 6 7 9 | | 5 | 1 3 5 9 | | 6 | 0 0 3 4 5 | | 7 | 3 7 9 | | 8 | 5 | | 9 | 0 |  1. Use this data to find the:    1. Range    2. Mean    3. Median    4. Mode 2. Draw a grouped frequency table showing a tally and frequency column | | | |

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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 large amount of data can be grouped into intervals. A tally table can be used to record and organise such intervals.  Interval is the series of values or data elements with upper and lower limits. Together with the learners the teacher work out an example where a class of Maths had scored the following results their test:  **Worked out example:**   |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | | 46 | 89 | 63 | 65 | 54 | 79 | 93 | 88 | 44 | | 64 | 56 | 63 | 96 | 73 | 82 | 53 | 65 | 68 | | 49 | 72 | 60 | 96 | 78 | 88 | 43 | 70 | 84 | | 43 | 71 | 70 | 66 | 82 | 55 | 61 | 45 | 44 | | 99 | 60 | 67 | 60 |  |  |  |  |  |  |  |  |  | | --- | --- | --- | | ***Scores*** | ***Tally*** | ***Frequency*** | | 40 -49 | *llll ll* | 7 | | 50 - 59 | *llll* | 4 | | 60 - 69 | *llll llll ll* | 12 | | 70 - 79 | *llll ll* | 7 | | 80 - 89 | *llll l* | 6 | | 90 - 99 | *llll* | 4 |   **Activity: ( groups)**  The tuck shop sold the following number of bread during the month of January.   |  | | --- | | 28 52 67 79 95 38 21 102 55 14  57 105 38 76 22 89 57 21 89 94  35 68 57 34 83 107 26 78 51 33 |  1. What group interval will you use to group this data? 2. Draw a tally table and group the data according to the group interval selected above. | |

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| 1. **CLASSWORK** (Suggested time: 20 minutes) |
| **Classwork:**  Here are the test marks out of 50 for some to the learners in Grade 7B.  17; 25; 37; 35; 45; 19; 22; 38; 44; 32; 26.  Use this data to find the range, mean; median and mode |
| **9.CONSOLIDATION/CONCLUSION & HOMEWORK** (Suggested time: 5 minutes)  a) **Emphasise that**:  Group data in intervals and determine:   * Mean * Median * Mode  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.  **Homework**   1. Consider the stem and leaf diagram below and then answer the question.   DBE Work Book 2 page 147   1. Sasol-Inzalo book 2 page 187 no 5 |