**MATHEMATICS LESSON PLAN**

**GRADE 7**

**TERM 4: October – December**

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| |  |  | | --- | --- | | PROVINCE: |  | | DISTRICT: |  | | SCHOOL: |  | | TEACHER’S NAME: |  | | DATE: |  | | DURATION: | 1 Hour |  1. **TOPIC: DATA HANDLING: Representing Data** (**Lesson 4**) 2. **CONCEPTS & SKILLS TO BE ACHIEVED** |
| **By the end of the lesson learners should know and be able to :**   * Draw a variety of graphs by hand/technology to display and interpret data (grouped and ungrouped included)   -Bar graphs and double bar graphs  -Histograms with given intervals |

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| 1. **RESOURCES:** | DBE workbook, Sasol-Inzalo workbook, textbook |
| 1. **PRIOR KNOWLEDGE:** | * Display * Interpret * Intervals * Key/Legend * frequency |
| 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. | |

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| 1. **LESSON PRESENTATION/DEVELOPMENT** (Suggested time: 20 minutes) | |
| **Teaching activities** | **Learning activities**  **(Learners are expected to :)** |
| Activity 1   1. Use the frequency table below to draw a bar graph. Use your bar graph and write three observations regarding the data represented in the graph. |  |

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| 1. **CLASSWORK** (Suggested time: 20 minutes) |
| **Activity 1.**  You surveyed the number of times your classmates have travelled to another province. The data you gathered is:  21, 0, 0, 7, 0, 1, 2, 12, 2, 3, 3, 4, 4, 6, 9, 10, 25, 18, 11, 20, 3, 0, 0, 1, 5, 6, 7, 15, 18, 21, 25  (a). Compile a frequency table and then draw a histogram using this data set. Make the 3 in size.    (b). What can you tell us about the results of your survey by looking at the histogram? |

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| 1. **CONSOLIDATION/CONCLUSION & HOMEWORK** (Suggested time: 5 minutes) 2. **Emphasise that the Bar graph**:   • Must have a title  • Must be drawn on squared/graph paper (depending on ability) equal width and have equal spaces between them.  • Labels are placed  • Bars must be  below each bar  • Bars should not be split into blocks (as in a Block Graph)  • The most appropriate scale is chosen based on the data collected,  and must be labelled on each division not between the divisions   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**  DBE Work Book 2 page 158-159 no 1(a)-(c) |