**MATHEMATICS LESSON PLAN**

**GRADE 7**

**TERM 3: July – September**

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

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| 1. **TOPIC: GRAPHS**: Interpreting graphs (Lesson 1) |

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| 1. **CONCEPTS & SKILLS TO BE ACHIEVED:**   **By the end of the lesson, learners should be able to:** analyse and interpret global graphs of problem situations with special focus on constant, increasing or decreasing. |

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| 1. **RESOURCES:** | DBE workbook 2, Sasol-Inzalo book 2, Textbooks |
| 1. **PRIOR KNOWLEDGE:** | * bar graph * point of origin ( 0; 0) |
| 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 ask learners questions based onthe graph below:  a. Which type of music is the most popular?  b. Which music is the least popular?  c. How many learners are there in the class?  d. How many more learners like kwaito than Jazz music?  e. How many learners like pop and gospel?  f .Calculate the difference between learners who likes rock and gospel ? | |

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| 1. **LESSON PRESENTATION/DEVELOPMENT** (Suggested time: 20 minutes) | |
| **Teaching activities** | **Learning activities**  (Learners are expected to :) |
| Lead learners in answering questions below  **Activity**  The graph below shows a person driving from home(**A**) to town (**B**) -(**C**), do shopping and travel back home got a tyre puncture (**D**), change a tire (**E**) and continue to travel back home  Time  Distance  **A**  **B**  **C**  **D**  **E**  **F**  Describe the distance of the following points:   1. A – B 2. B – C 3. C – D 4. D – E 5. E – F   **N.B:** Consolidate by linking learners’ responses to concepts **increasing, constant** and **decreasing** and indicating which is the independent value and dependent between time and distance.  Learners work in groups  **Activity 2**  The graphs below shows the cars moving at different speeds, identify which of the graphs below shows speed increasing, decreasing or constant  **A**  **C**  **B**  **N.B:** Consolidate by linking learners’ responses to concepts **increasing, constant** and **decreasing.** | Respond to the questions    Respond to the questions and share with the whole class |

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| 1. **CLASSWORK** (Suggested time: 15 minutes) |
| Study the graph below and answer the questions that follow:   |  |  | | --- | --- | |  | | |  | A  F  E  D  C  B | |  | |  1. Indicate the points on the graph where the distances are increasing. 2. What is happening in terms of time and distance from B to C and also D to E? 3. What is happening from E to F? |
| 1. **CONSOLIDATION/CONCLUSION & HOMEWORK (Suggested time: 5 minutes)** |
| 1. **Emphasise that:**  * The graph is **increasing** when dependent value (distance) increases as the independent value (time) increases. The graph slopes upwards from left to right. * The graph is **decreasing** when the dependent value (distance) decreases as the independent value (time) increases. The graph slopes downwards from left to right. * When the dependent values (distance) remain the same while independent value increases we say the graph is **constant**.  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.  **Recommended Homework** |