**MATHEMATICS LESSON PLAN**

**GRADE 7**

**TERM 1: January – March**

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

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| 1. **TOPIC: CONSTRUCTION OF GEOMETRIC FIGURES:** Constructions **(Lesson 3)** |

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| 1. **CONCEPTS & SKILLS TO BE ACHIEVED:**   **By the end of the lesson, learners should be able to** accurately construct geometric figures appropriately using compass, ruler and protractor, including: angles, to one degree of accuracy |

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| 1. **RESOURCES:** | DBE workbook 1, Sasol-Inzalo book 1, Mathematical instruments | |
| 1. **PRIOR KNOWLEDGE:** | * Drawing angles * Measuring angles | |
| 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)   Let the learners do the following activity.  Activity:   * draw line segment AK * Select any point between A and K and name it Z. * Construct line segment ZR perpendicular to AK   [This is revision of the previous lesson. The steps that they have to go through in the main lesson are the same.] | | |
| 1. **LESSON PRESENTATION/DEVELOPMENT** (Suggested time: 20 minutes) | | |
| **Teaching activities** | | **Learning activities**  (Learners are expected to :) |
| **Activity 1**  Together with the learners:   * Construct PAC .   For instructions on how this is done:   * Refer to DBE workbook, page 54 for appropriate steps. Also refer to pages 58 and 59 for use of compass. * You may also refer to Sasol-Inzalo Book, pages 96 -97 | | * Learners do the construction in their exercise books |
| 1. **CLASSWORK** (Suggested time: 15 minutes) | | |
| * Do No. 2 and 3 on page 54 of the DBE workbook.   [Allow learners to assist each other] | | |

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| 1. **CONSOLIDATION/CONCLUSION & HOMEWORK (Suggested time: 5 minutes)** |
| 1. Emphasis that angles should be constructed accurately 2. 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**:  Do No. 3 on page 97 of the Sasol-Inzalo Book.]   * 1. Construct a ray like the one below.   2. Construct the angles of measurements (a) to (k) using the ray. The ray will be one arm of the angles you are going to construct.   3. The vertex for each of your angles is the point labelled O where the tiny vertical line cuts the long horizontal one.   4. Your angles must be measured *anticlockwise* from the line.   (a) 23° (b) 45° (c) 65° (d) 79° (e) 90° (f) 121° (g) 154°  (h) 180° (i) 200° (j) 270° (k) 300° |