**LESSON DEVELOPMENT THREE**

**MEASURING AND DRAWING OF ANGLES**

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| **STAGE/TIME** | **TEACHER’S ACTIVITIES** | **LEARNER'S ACTIVITIES – MIND/HANDS ON** | **LEARNING POINTS** |
| **Step 1**  **Introduction**  **(5 minutes)** | **INTRODUCTORY ACTIVITIES –**  Asks pupils to describe the following angles –  1. Acute angles  2. Right angle  3. Obtuse angles  4. Angles on a straight line  5. Reflex angles  6. Full angle or angle at a point. | **MIND ON ACTIVITIES –**  1. < 90°  2. = 90°  3. > 90° and < 180°  4. = 180°  5. > 180° and < 360°  6. = 360° | Linking the Previous knowledge to the new lesson |
| **Step 2**  **Development**  **(5 minutes)**  **Grouping** | 1. Groups the learners into four groups – A, B, C, and D.  2. Guide the learners to choose a leader and secretary for your group.  3. Gives each group learning materials – mathematical set, clock, chart of different angles and plain paper. | 1. Belong to a group.  2. Choose their leader and secretary.  3. Received learning materials for their group. | Learner’s group, leader and secretary confirmed. |
| **Step 3**  **Development**  **(5 minutes)** | **GUIDED INSTRUCTIONS** – pupil’s activities.  1. Draw angle 120°, 60° and 30°.  2. Add angle 60° and 30°.  3. Add angle 120° and 60° together.  4. What type of angles is your results?  ***Note for the pupils – when you add 2 angles together and the result is 90° or 120°, it is called complementary or supplementary angle.*** | **HANDS ON ACTIVITIES**  60° + 30° = 90°    120° + 60° = 180°    Angle 90° is a right angle while 180° is an angle on a straight line. | Complementary and supplementary angles |
| **Step 4**  **Development**  **(10 minutes)** | Calculate the size of the angle marked with a letter – | Groups work | Complementary and supplementary angles |
| **Step 10**  **Development**  **(10 minutes)** | Asks each group to present their results/solutions so that you can compare responses with those in other groups. | Presentation | Group Presentation |
| **Step 6**  **Conclusion**  **(5 minutes)** | To conclude the lesson, the teacher revises the entire lesson and ask the key questions.  **SUMMARY –** Complementary angles are two angles that have a sum of 90°. Supplementary angles are two angles that have a sum of 180°.  **KEY QUESTIONS (ASSIGNMENT) –** Give the complement and supplementary of each of the following angles.  1. 51°  2. 13°  3. 46°  4. 65° | The learners listen, ask and answer questions. | Lesson Evaluation and Conclusion |

***Reference book – New Method Mathematics Book 5.***