**LESSON DEVELOPMENT TWO**

**MEASURING 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 – 1. What is this object called?2. What is it used for?3. How many hands does it has?4. What is the different between both hands?***Point to note for the pupils*** – When two lines meet (or intersect) at a point, then an angle is formed.The minutes and hour hands represent the two lines. ***The space between minute and hour hands make an angle.***  | MIND ON ACTIVITIES – 1. Clock. 2. It is used for telling time.3. It has two hands4. The first hand is called hour hand, and it is short. The second hand is called minute hand, and it is long. | 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)** | **Measuring of Angles using clock** 1. Write the time shown on each clock face. A Full Angle is an angle that has a measure of exactly 360°. 1 minute = 6°2 minutes = 12°60 minutes = 360°2. Write the angles between minute and hour hands.  | 1. 10:15 15 m = 15 x 6°  = 90°2. 3:3030 m = 30 x 15° = 180°3. 9:4545 m = 45 x 6° = 270° | Angles between minute and hour hands.  |
| **Step 4****Development****(10 minutes)** | Measure the following angles using clock. Guided instructions – 1. Draw 2 straight lines perpendicular to one another across the intersection. 2. Draw a circle around the perpendicular lines. 3. Number the circumference like the face of a clock. 4. Find the minutes and multiply by 6°.  | Groups Activities  | Measurement of angles using clock.  |
| **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**  | The learners listen, ask and answer questions. | Lesson Evaluation and Conclusion  |

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