**LESSON DEVELOPMENT FOUR**

**PROPERTIES OF CYLINDER AND SPHERE**

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| **STAGE/TIME** | **TEACHER’S ACTIVITIES** | **LEARNER'S ACTIVITIES – MIND/HANDS ON** | **LEARNING POINTS** |
| **Step 1****Introduction – Introductory Activities** **(5 minutes)** |  Asks pupils to identify cylinder and sphere among the following three dimensional shapes.  |  | 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 – open and closed cylinder and sphere.  | 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 – Groups Activities** **(10 minutes)** | Guides pupils to identify the edge, face and vertex of cube and cuboid.Asks the groups to – Find the total number of edges, faces and vertice (corners).State the similarities and different between their properties.  |  | Properties of cylinder and sphere  |
| **Step 4****Development – Groups Activities and Presentation** **(15 minutes)** |  ***Presentation***  | **SIMILARITIES –** Both has curved face. **DIFFERENT** **Cylinder** 1. A cylinder has one curved face. 2. It has two flat faces It has no vertex **Sphere** 1. A sphere has one curved face only. 2. It has no edge and no vertex. | Groups Presentation  |
| **Step 5****Development****(5 minutes)**  | To conclude the lesson, the teacher revises the entire lesson and ask the key questions. **KEY QUESTIONS**Copy and complete the following. 1. A cylinder has \_\_\_\_\_\_ flat circular faces.  | The learners listen, ask and answer questions.2. A cone has \_\_\_\_\_\_ edge. 3. An open shoe box has \_\_\_\_\_\_ faces.  | Lesson Evaluation and Conclusion  |

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

**Instructional Materials**

