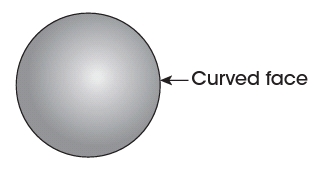
**LESSON DEVELOPMENT FOUR**

**PROPERTIES OF CYLINDER AND SPHERE**

|  |  |  |  |
| --- | --- | --- | --- |
| **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**

