**LESSON DEVELOPMENT ONE**

**CHANGE CAUSED BY HUMAN ACTIVITIES – POLLUTION**

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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. Shows pupils the clean bottle of water.  2. Asks them if they can drink this water?  3. Ask pupils to state the reason for their answers and allow pupils time to respond.  4. Now, add a few drops of a clear liquid to the water - oil, sea water, goat urine, pesticide chemical, etc.  5. Asks them if they would drink it now?  6. Now, ask pupils to state why they have changed their minds about drinking the water (write their answers on the board).  7. Explains to pupils that when water has harmful things in it, it is said to be polluted.  8. Asks them – what is pollution? Tells pupils that we will be learning about pollution in today’s lesson. | **MIND/HANDS ON ACTIVITIES**  1. Looking at the clean bottle of water.  2. Yes.  3. Because it is water, clean, etc.  4. Watching their teacher add drop of oil, sea water, goat urine, pesticide chemical, etc. to the water.  5. No.  6. Because it is mixed up with oil, sea water, goat urine, pesticide chemical, etc. which makes it unsafe for drinking.  7. Listen to the teacher’s explanation.  8. Pollution is when we put harmful materials into our water, land, and air. | Linking the Previous knowledge to the new lesson –  Meaning of Pollution |
| **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 –  Pieces of paper, matches, clean bottle of water and dirt from outside. | 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**  **(10 minutes)** | 1. Takes pupils outside to observe another type of pollution.  2. Leads pupils to an open space outside the classroom. Set the pieces of paper on fire to burn (make sure pupils are at a safe distance as you demonstrate this activity).  3. Now ask pupils to observe that the burning paper produces smoke, and that the smoke is released into the air we breathe.  4. Explain that if they stay very close to the smoke, they will begin to cough as a result of the smoke polluting the air they are breathing in.  5. Asks pupils to suggest the name for this kind of Pollution and give more examples to support the name of pollution mentioned.  6. Leads them back to the classroom. | 1. Follow the teacher’s lead.  2. Observe the teacher’s activities.  3. Watch the paper burns and release smoke into the air.  4. Listen to the teacher’s explanation.  5. Air pollution. Smoke from generator, car, burning tyre, etc.  6. Follow the teacher back to the classroom. | Change caused by Human Activities |
| **Step 4**  **Development**  **(10 minutes)** | Writes the following statements on the board and asks pupils to discuss with their partners and identify which type of pollution can be caused by each of the listed actions –  1. Burning a piece of paper or cloth outside.  2. Mixing kerosene with water in a small plastic bottle.  3. Throwing rubbish around the environment.  4. Bathing in the river.  5. Relieving oneself on the river bank or in the forest.  6. Playing very loud music. | Groups discussion.  1. Air Pollution  2. Water Pollution  3. Land and Air Pollution  4. Water Pollution  5. water pollution  6. Noise Pollution | Types of Pollution |
| **Step 5**  **Development**  **(10 minutes)** | Asks each group to present their answers so that you can compare responses with those of other groups. | Presentation | Presentation |
| **Step 6**  **Conclusion**  **(5 minutes)** | To conclude the lesson, the teacher revises the entire lesson and ask the key questions.  **KEY QUESTIONS**    1. What is Pollution?  2. State three (3) of pollution. | The learners listen, ask and answer questions.  **ANSWERS**  Pollution is anything that makes our water, land, air and environment dirty and unsafe to use.  There are three types of pollution –  1. Air Pollution  2. Water Pollution  3. Land Pollution | Lesson Evaluation and Conclusion |