**LESSON DEVELOPMENT TWO**

**PROPERTIES OF BASES**

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| **STAGE/TIME** | **TEACHER’S ACTIVITIES** | **LEARNER'S ACTIVITIES – MIND/HANDS ON** | **LEARNING POINTS** |
| **Step 1**  **Introduction**  **(5 minutes)** | Asks pupils the following questions –  1. Have you ever heard the word base?  2. How did you hear about it? | Pupil’s respond –  1. Yes/no  2. They share theirs opinions on how they hear about acid | Linking the Previous knowledge to the new lesson |
| **Step 2**  **Development**  **(5 minutes)**  **Grouping** | 1. Groups the pupils into four groups – A, B, C, and D.  2. Guide the pupils to choose a leader and secretary for your group.  3. Gives each group learning materials. – sample of base and test tube. | 1. Belong to a group.  2. Choose their leader and secretary.  3. Received learning materials for their group. | Pupil’s group, leader and secretary confirmed. |
| **Step 3**  **Development**  **(10 minutes)** | Guides the groups through the following activities –  1. Put a little of this solution in a test tube.  2. Bend the test tube and touch the solution with the tip of your middle finger.  3. Rub the solution between the tip of your middle finger and your thumb.  Ask the groups –  1. How does the solution feel?  2. Does it feel slippery? | The pupils perform the activities as guided and instructed by the teacher and discover that the bases have slippery or soapy feel. | Tasting base by rubbing between thumb and a finger. |
| **Step 4**  **Development**  **(10 minutes)** | Guides the groups through the following activities –  1. Dip a red litmus paper in the base provided.  2. Record your observations. | The pupils perform the activities as guided and instructed by the teacher and discover that the red litmus paper turns red. | Testing with red litmus paper. |
| **Step 5**  **Conclusion**  **(10 minutes)** | To conclude the lesson, the teacher revises the entire lesson and ask the key questions.  1. What is base?  2. What are the properties of base?  3. What is the difference between acids and bases? | Pupil’s answer –  1. Bases are chemical substances opposite to acids.  2. Properties of base  a. Bases have slippery or soapy feel.  b. Bases turn red litmus paper to blue.  3. The difference between acids and bases are –  a. Acids taste sour while bases have soapy feel.  b. Acids turn blue litmus paper to blue while bases turn red litmus paper to blue.  c. They opposite of one another. | Evaluation and Conclusion |