LESSON DEVELOPMENT

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| STAGES/STEPS | TEACHER’S ACTIVITIES | STUDENTS’  ACTIVITIES | MODE |
| PRESENTATION |  |  |  |
| STEP1  (IDENTIFICATION OF PRIOR IDEAS) | The teacher reviews the lesson by asking students to define an element. | The students respond to the teacher’s question by defining an element. | Individual |
| STEP 2  (EXPLORATION) | The teacher displays the pictures of industries, charts and posters. | The students watch the displayed chart | Group |
| STEP 3  (DISCUSSION) | **The adverse effects of existence of chemistry**  The existence of chemistry brought about the existence of chemicals. The adverse effects of chemicals include; drug abuse, poisoning, corrosion and pollution.   1. **Drug Abuse:** This simply involves wrong usage of drugs. Some of these drugs include heroin, cocaine and morphine which are used as addictive. Unscrupulous people produce and sell them at huge profits. Drug addiction is a major problem in our society, especially among young people. Many countries have imposed strict laws to control pollution and drug abuse. However, the most effective control measure is education. We must use what we learnt to improve our life and to control these abuses. 2. **Poisoning:** This is where chemicals are used to poison the food we eat. This happens when the chemicals used as addictive probably as preservative are added more than required or expired in the food stuff where it was added, then instead of the food stuff bringing health to our body, it turns to poison. 3. **Corrosion:** Corrosion of iron can also be called rusting and requires the presence of water and oxygen. Rusting can also be regarded as the slow deterioration of iron to iron (III) oxide. This iron (III) oxide is permeable to both air and water and cannot protect the iron from further corrosion of iron.   Rusting can be prevented by four methods.   1. Application of protective coating. 2. Application of sacrificial metal. 3. Alloying. 4. Cathodic protection. 5. **Pollution:** Chemical industries through the action of production pollute our environment as the smoke enters into the air, and dirts of different kinds enter into the water thereby polluting the entire environment. Specifically chemical wastes from factories and oil refineries and radioactive wastes from nuclear plants pollute our environment. Oil spillage, exhaust from motor vehicles, pesticides, fertilizers and acid rain have made our environment unclean and endangered plant and animal life. Human health is also being threatened by environmental pollution. Presently, chemists are trying to come up with a fuel that will reduce the air pollution problem. They are also modifying chemical processes to recycle chemical wastes or change them to harmless products which can be safely discharged into the surrounding. | The students listen and also contribute to the discussion by listing some of the elements. | Entire class |
| STEP 4 (APPLICATION) | The teacher asks the students to state the dangers of drug abuse in the society | The students respond to the teacher’s question. | Entire class |
| STEP 5 (EVALUATION) | The teacher evaluates the lesson by asking the students to:   1. Explain the meaning of adverse effects of chemistry 2. State four adverse effects of chemistry in our society 3. State four ways of preventing corrosion of iron | The students respond to the teacher’s question | Individual |
| CONCLUSION | The teacher summarizes the lesson by emphasizing on the main points of the lesson. | The students listen and write down notes. | Entire class |
| ASSIGNMENT | Give five reasons why chemistry is important in your life. | Write down the assignment | Entire class |
| REFERENCES | 1. New School Chemistry for Senior Secondary Schools by Osei – Yaw Ababio. 2. Understanding Chemistry by Godwin O. Ojokuku. |  |  |

HOD’S COMMENT:

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HOD’S NAME:

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DATE: ……………………

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