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| **CHEMISTRY SECONDARY SCHOOL**  **SCHEME OF WORK**  **TEACHER’S NAME : SUBJECT: CHEMISTRY CLASS : S.3 STREAM; TERM: I YEAR: 2025** | | | | | | | | |
| **Week** | **Period** | **Theme And Topic** | **Competency** | **Learning Outcomes** | **Teaching/Learning Resources** | **Methodology And Techniques** | **References** | **Remarks** |
| 01  01 | 12  02  18 | Theme: CARBON IN LIFE  CHAPTER: CARBON IN LIFE  Theme: CARBON IN LIFE  CHAPTER: CARBON IN LIFE  Theme: CARBON IN LIFE  CHAPTER: CARBON IN LIFE  Theme: STRUCTURES AND BONDS  Topic:  STRUCTURES AND BONDS | The learner appreciated the diversity of organic compounds including alkanes, alkenes, alcohols and carboxylic acids.  The learner appreciates how atoms are composed of fundamental particles, and how molecules and compounds are composed of atoms. | By the end of this chapter, the learner should be able to;  -Recognize that there is diversity of carbon compounds in living things and materials derived from living things, and that these may be classified into groups.  -Understand that crude oil is a mixture of different alkanes that can be separated by fractional distillation; that these products are used as fuels and to make other useful products.  -Know and appreciate that natural gas deposit are worldwide, that their main constituent is methane and that gas deposits are useful source of fuels and chemical feedstock.  -Appreciate that biogas is a carbon-based fuel useful for cooking and lighting.  -Know some common synthetic and natural polymers and how their properties relate to the uses.  -Understand and appreciate that alcohols form a group of compounds of which ethanol is a typical member and has many uses.  -Understand how ethanol is made naturally by fermentation of sugars and other organic substances, and be aware of the dangers of abuse of ethanol.    -Know the process of making soapy detergents from natural fats and oils; and appreciate that soapless detergents are effective in removing oily stains.  -Know that soapless detergents are made from crude oil and that soapless detergents are better cleansing agents in hard water than soapy detergents but have a more deleterious effect on environment.  -Understand how organic compounds can be grouped into homologous series, each of which has similarities in structure and properties.  Learners should be able to;  -understand that atoms are the building blocks from which all matter is made (u)  -understand the terms: element, atom, molecule, and compound’, and appreciate how they are related (u)  - understand how atoms of different elements differ in their subatomic structure (u) | -Videos  -Charts  -Photos  -ICT resources  -Lab apparatus  -Chalk board  -markers  -stick notes  -learner’s guide  -teacher’s guide  -Videos  -Charts  -Photos  -ICT resources  -Lab apparatus  -Chalk board  -markers  -stick notes  -learner’s guide  -teacher’s guide  -Videos  -Charts  -Photos  -ICT resources  -Lab apparatus  -Chalk board  -markers  -stick notes  -learner’s guide  -teacher’s guide  -Videos  -Charts  -Photos  -ICT resources  -Lab apparatus  -Chalk board  -markers  -stick notes  -learner’s guide  -teacher’s guide | -Guided group discussion  -Guided Research  -Guided Discovery and Explanation  -Brainstorming  -creating a mind map  Guided group discussion  -Guided Research  -Guided Discovery and Explanation  -Brainstorming  -creating a mind map  -Guided group discussion  -Guided Research  -Guided Discovery and Explanation  -Brainstorming  -creating a mind map  -Guided group discussion  -Guided Research  -Guided Discovery and Explanation  -Brainstorming  -creating a mind map | -Learner’s guide  -Teacher’s guide  -Understanding O’level chemistry by Livingstone Kaweesi  -New certificate chemistry,4th edition by Atkinson A  -New Complete Junior Chemistry by Atkinson A and Saleh Z  -Chemistry 7th edition; McGraw-Hill  -O’level chemistry for East Africa by Sinclair M  -Learner’s guide  -Teacher’s guide  -Understanding O’level chemistry by Livingstone Kaweesi  -New certificate chemistry,4th edition by Atkinson A  -New Complete Junior Chemistry by Atkinson A and Saleh Z  -O’level chemistry for East Africa by Sinclair M  -Learner’s guide  -Teacher’s guide  -Understanding O’level chemistry by Livingstone Kaweesi  -New certificate chemistry,4th edition by Atkinson A  -New Complete Junior Chemistry by Atkinson A and Saleh Z  -O’level chemistry for East Africa by Sinclair M  -Learner’s guide  -Teacher’s guide  -Understanding O’level chemistry by Livingstone Kaweesi  -New certificate chemistry,4th edition by Atkinson A  -New Complete Junior Chemistry by Atkinson A and Saleh Z |  |

H.O.D’s COMMENT

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