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| **CHEMISTRY SECONDARY SCHOOL**  **SCHEME OF WORK**  **TEACHER’S NAME : SUBJECT: CHEMISTRY CLASS : S.4 STREAM; TERM: I YEAR: 2025** | | | | | | | | |
| **Week** | **Period** | **Theme And Topic** | **Competency** | **Learning Outcomes** | **Teaching/Learning Resources** | **Methodology And Techniques** | **References** | **Remarks** |
| 01 | 18 | Theme: REDOX REACTIONS  Topic: OXIDATION AND REDUCTION | The learner should understand oxidation and reduction in terms of gain or loss of oxygen and in terms of electron transfer and appreciate that the two processes always occur together. | Learners should be able to;  -Understand the process of reduction and oxidation and their importance in the chemistry industry.  -Explain redox reactions in terms of electron transfer.  -Understand the changes that take place during electrolysis. | -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 | -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 |  |

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| 02 | 02 | Theme: REDOX REACTIONS  Topic: industrial processes. | The learner should appreciate the principles behind some industrial processes and the importance of the products formed. | By the end of this chapter, the learner should be able to;  -Know about some of the main industries that produce useful chemicals such as the oil industry for our organic chemicals, the production of metals, the acid industry, the alkali industry, the fertilizer industry and cement industry.  -Understand the processes of obtaining useful chemicals from rocks  - Understand the process involved in extracting and purifying metals with particular reference to processes used in Uganda.  - Understand the importance of nitrate as fertilizers in food production and know how they are produced from the nitrogen in the air.  -Outline four industrial processes that make use of natural resources obtained in Uganda.  -Recognize the importance of industrial processes in utilizing natural resources to make useful chemicals and appreciate that industrial processes have social benefits and cause problems of pollution and environmental destruction.  -Describe some of the dangers to the community that arise from these industrial processes and the steps that can be taken to minimize these dangers.  -Understand the processes involved in the manufacture of lime and cement.  -Understand the production of alkali and chlorine by electrolysis of salt solution.  -Evaluate uses of synthetic polymers | -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 | -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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