

SCHOOL: MAKERERE COLLEGE SCHOOL

NAME OF TEACHER: SENGoye SAMUEL

SUBJECT: CHEMISTRY

THEME: ORGANIC CHEMISTRY I

CLASS: S.5 B, C, P

TERM: II 2026

TOPIC: Introduction to organic CpdS

Competency: The learner analyses the structures, functional groups and reactivity of organic CPDs and applies knowledge of reactions and mechanism to synthesize.

WEEK: 1 (25 /05 /2026 to 30/05/2026)				PERIODS: 4	
LEARNING OUTCOME	LEARNING OUTCOME FOCUS	TEACHING AND LEARNING AIDS	EVIDENCE OF ACHIEVEMENT	REFERENCES	REMARKS
The learners should be able to; Apply principles of chemistry to understand the classification and general characteristics of organic CpdS	- Individual learners search for information about the unique nature of carbon in organic compounds. - Formation of single bond, double bonds and triple bonds and engage in teacher led discussion.	- Short video from U-tube on formation of double bond projector	- Monitor the learners confidence, accuracy of facts and involvement during the teacher led discussion of unique nature of carbon	- Organic chemistry by Bela - Organic chemistry by Keith Obot - Organic chemistry by Job Kayiira.	
WEEK 2 (01/06/2026 to 06/06/2026)				PERIODS: 4	
Apply principles of organic chemistry on functional groups and homologous series	- Individually learners search for information about homologous series, functional groups and their general formulae (C _n H _{2n} H, C _n H _{2n} , C _n H _{2n} -2)	- Using google state homologous series, functional Gp, laptop, phone	- Monitor learner search for homologous series and functional Gps from other laptops	- Organic chemistry by Bela - Organic chemistry by Keith Obot - Organic chemistry by Job Kayiira.	
WEEK 3 (08/06/2026 to 13/06/2026)				PERIODS: 4	
Apply the principles	- In groups learners use	- chemistry model	Discuss with the	- Organic chemistry	

of organic chemistry to the concept of isomerism	models to illustrate different types isomers and create models of isomers for a given molecular formula and display other work on charts. - In groups learners engage in teacher discusiion to explain the different properties of isomers	- virtual lab demo on organic models	learners to assess justifications for the choice of model	by Bela - Organic chemistry by Keith Obot - Organic chemistry by Micheal Peter.	
WEEK 4 (15/06/2026 to 20/06/2026)				PERIODS: 4	
Use I.U.P.AC nomenclature to name organic compounds	-In pairs learners practice naming and drawing organic molecules following I.U.P.AC system/role -Learners use the structural formula to identify the functional group. - Individually learners carry out problem solving exercise involving structure prediction based on functional groups.	-names of organic structures - structures of organic molecules -functional Gps of organic Gps	-observe the process of drawing and naming organic Cpds -assess the correctness of the structure and name	-Organic chemistry by Bela - Organic chemistry by Keith Obot - Organic chemistry by Job Kayiira.	
WEEK 5 (22/06/2026 to 27/06/2026)				PERIODS: 4	
Apply the principle of organic chemistry on alkanes, explain physical properties based on structure	- Individually learners search for information about physical properties of Alkanes - Demonstrate the	-Organic models -Virtual Lab on organic model	- Observe the learners during the Lab experiment to prove physical properties - Observe learners on	- Organic chemistry by Keith Obot - Organic chemistry by Bela.	

	bounding in Alkanes. - Use molecular models to demonstrate structure - Carry out Lab experiment to observe physical properties of Alkanes - Predict reactivity and mechanism for reactions.		reaction mechanism		
WEEK 6 (29/06/2026 to 04/07/2026)				PERIODS: 4	
Apply the principle of organic chemistry on Alkenes	- Individually learners search for information about reactivity and reaction mechanism (hydrogenation, hydrogen chloride, acidified water, polymensation and exudation using potassium permanganate solution.	- Organic mechanism charts - Virtual lab demo on organic mechanism from U-tube	- Observe learners discuss reactivity and mechanism of Alkenes and deduce functional group.	- Organic chemistry by Keith Obot - Organic chemistry by Bela.	
WEEK 7 (06/07/2026 to 11/07/2026)				PERIODS: 4	
Apply the principle of organic chemistry on Alkynes	-Individually learners search for information about reactivity and reaction mechanism for Alkynes (similar to those of Alkenes)	- Organism mechanism charts - Virtual Lab demo on organic mechanism	- Observe learners discuss reactivity and mechanism of Alkynes and deduce functional group.	- Organic chemistry by Keith Obot - Organic chemistry by Bela.	
WEEK 8 (13/07/2026 to 18/07/2026)				PERIODS: 4	
Apply the principles of organic chemistry on Alkenes and Alkynes similarities and differences	-In pairs learners carry out test tube reactions identify the double bonds in Alkenes using bromine water and potassium manganat VII	-Worksheets mechanism charts - Virtual lab video	- Observe learners discussions on reactivity and mechanism of Alkenes and Alkynes.	- Organic chemistry Keith Obot. - Organic chemistry by Bela.	

	-In pairs learners practice the writing of reactions and their mechanism using work sheets.				
WEEK 9 (20/07/2026 to 25/07/2026)				PERIODS: 4	
Predict the reactivity and reactions of Alkenes and Alkynes	- In pairs learners carry out test tube reactions. - Identify the double bond on alkenes using bromine water and potassium manganate (VII)	- Worksheets - Mechanism charts - Virtual lab video	- Evaluate written reports and mechanism of reactions of hydrocarbon for accuracy and coherence.	- Organic chemistry by Keith Obot - Organic chemistry by Bela	
WEEK 10 (22/07/2026 to 01/08/2026)				PERIODS: 4	
Predict the reactivity and reaction mechanism of Alkenes and Alkynes	- In groups, learners use case studies to explore the different applications of Alkenes and Alkynes in everyday life and make reports	- Work sheets - Video from U-tube - Test tubes - Test tube rack	- Discuss with learners to assess their understanding of the principles of writing addition reaction mechanism.	- Organic chemistry by Keith Obot - Organic chemistry by Bela	