

# **SCIENCES DEPARTMENT**

## **SCHEMES OF WORK**

### **FORM THREE BIOLOGY SCHEMES OF WORK**

#### **SUBJECT: BIOLOGY**

#### **TERM 1 – 2025**

#### **GENERAL OBJECTIVES**

**By the end of the year the learner should be able to:**

- a)** Communicate biological information in a precise, clear and logical manner
- b)** Develop an understanding of interrelationships between plants and animals and between humans and their environment
- c)** Apply the knowledge gained to improve and maintain the health of the individual, family and the community
- d)** Relate and apply relevant biological knowledge and understanding to social and economic situations in rural and urban settings
- e)** Observe and identify features of familiar and unfamiliar organisms, record the observations and make deductions about the functions of parts of organisms
- f)** Develop positive attitudes and interest towards biology and the relevant practical skills
- g)** Demonstrate resourcefulness, relevant technical skills and scientific thinking necessary for economic development
- h)** Design and carry out experiments and projects that will enable them understand biological concepts
- i)** Create awareness of the value of cooperation in solving problems
- j)** Acquire a firm foundation of relevant knowledge, skills and attitudes for further education and for training in related scientific field.

#### **REFERENCE**

- 1. KLB BOOK III**
- 2. KLB TEACHERS' GUIDE**
- 3. TEACHER'S PREPARED NOTES**

W NO	L/ NO	TOPIC/ SUBTOPIC	LESSON / SPECIFIC OBJECTIVES	TEACHING / LEARNING ACTIVITIES	MATERIALS / RESOURCES	REF.	REMARKS
1	1	<b>CLASSIFICATION II</b>  Principles of classification of living organisms.	<b>By the end of the lesson, the learner should be able to:</b> Explain the importance of classification of organisms. Discuss the general principles of classification. Identify major taxonomic units.	Q/A: To review Classification I.  Discussion of principles of classification of organisms.  Q/A: Major taxonomic units.	Chart- Taxonomic units.	KLB BK III. PP 1-2.	
	2	Binomial Nomenclature.	To define a species. To explain features of a species. To explain principles of binomial nomenclature.	Probing questions leading to definition of a species. Give examples of breeds and varieties. Discuss the double- naming system and the underlying features	Chart- Examples of generic and specific names of organisms.	KLB BK III.P 2.	
	3	Animal Kingdoms.	Identify the five animal kingdoms.	Expository approach -The teacher will expose the five kingdoms. Discussion- General characteristics of unicellular and microscopic organisms. Drawing and labeling a bacterium.	Chart- Types of bacteria	KLB BK III.P 3.	
	4	Kingdom Monera.	State characteristics of members of kingdom Monera. To identify and draw various bacteria. To explain how bacteria affect our lives.	Q/A: Economic importance of bacteria.			
	5	Kingdom Protoctista.	To give examples of members of kingdom Protoctista. To state general characteristics of members of kingdom Protoctista.	Teacher leads in a discussion.		KLB BK III. PP 4-5.	
2	1	Organisms with varied forms.	To draw and label an amoeba, paramecium, spirogyra, e.t.c.	Drawing and labelling organisms with varied forms.	Wall charts.	KLB BK III. P 4-5.	

	2,3	Organisms in pond water.	To identify organisms in pond water.	Examine a drop of pond water on a glass slide under a microscope. Draw diagrams of organisms observed. Compare the observed organisms with those previously drawn and labelled.	Microscope Water dropper Pond water Glass slides.	KLB BK III. P. 4-5.	
	4,5	Kingdom Fungi.  Characteristics of Kingdom Fungi.	To give examples of members of kingdom fungi. To discuss economic importance of fungi. To state general characteristics of fungi.	Detailed discussion. Exposition of new concepts/ terms.	Mushrooms, Yeast, Bread mould.	KLB BK III. P 6.	
3	1,2	Diagrams of Fungi.	To draw and label various fungi.	Examine bread mould. Draw and label diagrams of various fungi.	Wall charts, Bread mould, Yeast, Edible mushroom.	KLB BK III. P 6.	
	3	Kingdom Plantae.  General characteristics.	State general characteristics of plants.	Q/A: Compare plants with the aforementioned kingdoms, and then list down characteristics of plants.		KLB BK III. P 7.	
	4	Division Bryophyta External structure of a Bryophyta.	State general characteristics of Bryophyta. To draw and label external features of an identified Bryophyta. To identify features of Bryophyta.	Teacher leads in a discussion. Students examine moss plant under a hand lens, then Draw and label the moss plant.	Moss plant, Hand lens, Slide.	KLB BK III. P 7.	

	5	Division Pteridophyta.	To state general characteristics of Pteridophytes. To draw and label external features of Pteridophytes.	Teacher leads in a discussion on characteristics of Pteridophytes. Class experiments: To observe a live or preserved fern. To draw and label the fern.	A live or preserved fern.	KLB BK III. P 7.	
4	1	Division Spermatophyta.	To state general characteristics of spermatophytes.	Teacher leads in a discussion on spermatophytes.		KLB BK III. P 9.	
	2	Features of Spermatophytes.	To identify features of spermatophytes.	Class experiments: To examine a complete specimen of a bean plant with ponds/ maize plant/ a twig of cypress.	Complete specimens of bean plant with ponds/ maize plant/ a twig of cypress.	KLB BK III. P 9.	
	3	Sub-division Gymnospermatophyta.	To state general characteristics of gymnospermatophyta.	Detailed discussion.		KLB BK III. P 9.	
	4	Subdivision Angiospermaphyta.	To state general characteristics of angiospermaphyta.	Detailed discussion. Q/A: Comparing gymnospermatophyta and angiospermaphyta.		KLB BK III. P 10.	
	5	Class Monocotyledonae.	To list down characteristics of Monocotyledonae.	Class experiments: Examine maize plant/ wheat/ grass/ sugarcane. Discuss external features of the plants.	Maize plant/ wheat/ grass/ sugarcane.	KLB BK III. P 11.	

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**Warm regards,**

**GOLDLITE ONLINE TEAM**

Feel free to reach out if you have any questions or need assistance. We're here to support you!

Note that:

We have used various books including KLB, JKF, Tusome, Oxford, Longhorn, Moran Publishers, Mountain Top, NPPE, New Beginning (I.R.E), EAEP, Queenex, Kiswahili Mufti, Dadisi, Trendy, Inventor and many more.

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