COMPETENCE BASED CURRICULUM SCHEME OF WORK

TERM: ..1, 2024 SCHOOL: …… CLASS: ..S1.. SUBJECT: …PHYSICS… TEACHER: ……..

WEEK	PERIODS	THEME	TOPIC	SUB TOPIC	LEARNING AREA	COMPETENCY	LEARNING OUTCOME	METHODOLOGY	TEACHING AND LEARNING AID	COMMENT
1	04	INTRODUCTION TO PHYSICS	THE INTRODUCTION TO PHYSICS GENERAL		• DEFITION OF PHYSICS • PHYSICS AS A BRANCH OF SCIENCE • CARREER OPPORTUNITIES FOR A PHYSICIST • THE IMPORTANCE OF PHYSICS	THE LEARNER SHOULD BE ABLE TO UNDERSTAND THE IMPORTANCE OF PHYSICS AND SAFE LABORATORY PRACTICE	THE LEARNER SHOULD BE ABLE TO: • UNDERSTAND THE MEANING OF PHYSICS, ITS BRANCHES AND THE IMPORTANCE OF STUDYING IT. • UNDERSTAND WHY IT IS IMPORTANT TO FOLLOW LABORATORY RULES AND REGULATIONS.	• GROUP DISCUSSION • GROUP RESEARCH • QUESTION AND ANSWER • DEMONSTRATION • PROBLEM SOLVING • QUIZ • SIMULATION • OBSERVATION • ROLE PLAY • EXPERIMENTATION • PROFECT	• LIBRARY RESOURCE • PICTURES • PROJECTOR • DICTIONARY • MANILA PAPER • INTERNET	
2	04		THE PHYSICS LABORATORY	THE MEANING OF THE LABORATORY	• THE MEANING OF A LOBORATORY • STRUCTURE OF A LABORATORY					
				LABORATORY SAFE PRACTICES	• COMMON ACCIDENTS IN A LABORATORY • LABORATORY RULES AND REGULATIONS					
3	02	ACTIVITY OF INTEGRATION (INTRODUCTION TO PHYSICS)								
	02	MECHANICS AND PROPERTIES OF MATTER	MEASUREMENTS IN PHYSICS	THE SCIENTIFIC METHOD	• THE CONCEPT OF THE SCIENTIFIC METHOD • PROCEDURE OF THE SCIENTIFIC METHOD • APPLICATIONS OF THE SCIENTIFIC METHOD	THE LEARNER SHOULD BE ABLE TO ESTIMATE AND MEASURE TIME, MASS, LENGTH, AREA, VOLUME AND DENSITY AND EXPRESS THEM USING APPROPRIATE UNITS	THE LEARNER SHOULD BE ABLE TO: • UNDERSTAND THE SCIENTIFIC METHOD AND EXPLAIN THE STEPS USED IN RELATION TO THE STUDY OF PHYSICS • KNOW THAT PRACTICAL INVESTIGATIONS INVOLVE A FAIR TEST ANALYSIS, PREDICTION AND JUSTIFICATION OF RESULTS AND APPLY THE SCIENTIFIC METHOD IN REAL LIFE SITUATIONS. • RECORD AND REPRESENT DATA ON GRAPHS AND CHARTS AND LOOK OUT FOR TRENDS.	• GROUP DISCUSSION • GROUP RESEARCH • QUESTION AND ANSWER • DEMONSTRATION • PROBLEM SOLVING • QUIZ • SIMULATION • OBSERVATION • ROLE PLAY • EXPERIMENTATION • PROJECT	• LIBRARY RESOURCE • PICTURES • PROJECTOR • DICTIONARY • MANILA PAPER • NTERNET • DRY CELL • CONNECTING WIRES • DEAD TORCH • WORKING TORCH • TORCH BULB • GRAPH PAPER	

WEEK	PERIODS	THEME	TOPIC	SUB TOPIC	LEARNING AREA	COMPETENCY	LEARNING OUTCOME	METHODOLOGY	TEACHING AND LEARNING AID	COMMENT
3	02	MECHANICS AND PROPERTIES OF MATTER	MEASUREMENT IN PHYSICS	ESTIMATION AND MEASUREMENT OF BASIC QUANTITIES	• PHYSICAL AND NON PHYSICAL QUANTITIES • BASIC AND DERIVED QUANTITIES • S.I UNIT SYSTEM • INTERCONVERSION OF UNITS • ESTIMATION AND ERRORS IN MEASUREMENT • ROUNDING OFF AND SIGNIFICANT FIGURES • ESTIMATION AND MEASUREMENT OF TIME • ESTIMATION AND MEASUREMENT OF MASS • ESTIMATION AND MEASUREMENT OF LENGTH	THE LEARNER SHOULD BE ABLE TO ESTIMATE AND MEASURE TIME, MASS,LENGTH, AREA, VOLUME AND DENSITY AND EXPRESS THEM USING APPROPRIATE UNITS	THE LEARNER SHOULD BE ABLE TO: • UNDERSTAND HOW TO ESTIMATE AND MEASURE PHYSICAL QUANTITIES SUCH AS TIME, MASS, LENGTH, AREA AND DENSITY. • EXPLAIN HOW TO CHOOSE THE RIGHT MEASURING INSTRUMENT AND UNITS, EXPLAINING HOW TO USE THE INSTRUMENTS TO ENSURE ACCURACY. • APPRECIATE THAT THE ACCURACY OF THE MEASUREMENTS MAY BE IMPROVED BY MAKING SEVERAL MEASUREMENTS AND TAKING THE AVERAGE VALUE. • IDENTIFY POTENTIAL SOURCES OF ERRORS IN MEASUREMENTS AND DEVISE STRATEGIES TO MINIMISE THEM. • UNDERSTAND AND BE ABLE TO USE SCIENTIFIC NOTATION AND SIGNIFICANT FIGURES. • UNDERSTAND DENSITY AND ITS APPLICATION TO FLOATING AND SINKING. • DETERMINE DENSITIES OF SUBSTANCES AND RELATE THEM TO PURITY. • UNDERSTAND THE GLOBAL NATURE OF OCEAN CURRENTS AND HOW THEY ARE DRIVEN BY CHANGES IN WATER DENSITY AND TEMPERATURE.	• GROUP DISCUSSION • GROUP RESEARCH • QUESTION AND ANSWER • DEMONSTRATION • PROBLEM SOLVING • QUIZ • SIMULATION • OBSERVATION • ROLE PLAY • DISCUSSION • EXPERIMENTATION • PROJECT	• LIBRARY RESOURCE • PICTURES • PROJECTOR • DICTIONARY • MANILA PAPER • INTERNET • EMPTY BOX • GLASS BOTTLE • SAUCE PAN • FORKS • THEMOMETER • CORK • STRINGS • EUREKA CAN • FRESH LEAVES • PLASTIC BOTTLE • MARBLE • TEA LEAVES • TABLE SALT • GLASS BOTTLE • WATER • PARAFFIN	
4	04									
5	02									
	02			ESTIMATION AND MEASUREMENT OF DERIVED QUANTITIES	• ESTIMATION AND MEASUREMENT OF AREA • ESTIMATION AND MEASUREMENT OF VOLUME • ESTIMATION AND MEASUREMENT OF DENSITY					
6	04									
7	04									
8	02				• FLOATING AND SINKING • DENSITY AND OCEAN CURRENTS					
	02	ACTIVITY OF INTEGRATION (MEASUREMENT IN PHYSICS)								
9	END OF TERM 1 ASSESSMENT									

REFERENCE:

1. **A.F. ABBOT (1989), PHYSICS, 5TH EDITION HEINEMAN EDUCATIONAL PUBLISHERS, ENGLAND.**
2. **ATIKINSON A (1993), COMPLETE JUNIOR PHYSICS, INTERNATIONAL EDITION, LONGMAN PUBLISHERS.**
3. **JOHN AVISION (1985), THE WORLD OF PHYSICS, THOMAS NELSON AND SONS, UK.**
4. **TOM DUNCAN (2011), PHYSICS FOR TODAY AND TOMORROW, HODDER EDUCATION, UK.**
5. **L.E FOLIVI AND A GODMAN (1992), NEW CERTIFICATE PHYSICS, NEW EDITION, LONGMAN, ENGLAND.**
6. **NCDC REFERENCE BOOKS FOR THE COMPETENCE BASED CURRICULUM (S.1 LEANERS' BOOKS AND S.1 TEACHER' S GUIDES).**
7. **NELKON M (1990) PRINCIPLES PF PHYSICS, 8TH EDITION, LONGMAN PUBLISHERS**
8. **NEW LOWER SECONDARY CURRICULUM PHYSICS SYLLABUS.**
9. **WIKIPEDIA ONLINE ENCYCLOPEDIA**
10. **https://digitalteaccers.co.ug.**
11. **https://etutoring.gayazahs.sc.ug.**
12. **https://researchguides.case.edu/physics.**
13. **https://scienceeducatorsuganda.com.**

PREPARED BY; **APPROVED BY;**

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SUBJECT TEACHER **HOD** **DOS**