

SCHEME OF WORK FOR A COMPETENCE BASED CURRICULUM

TERM:, YEAR:..... SCHOOL: CLASS: SUBJECT: TEACHER:

WEEK	PERIODS	THEME	TOPIC	SUB TOPIC	COMPETENCY	LEARNING OUTCOME	LEARNING OUTCOME FOCUS	TEACHING AND LEARNING AIDS	METHODOLOGY	EVIDENCE OF LEARNER'S ACHIEVEMENT	REMARKS		
1	04	ELECTRICITY	ELECTRIC ENERGY DISTRIBUTION AND CONSUMPTION	INTRODUCTION	<p>THE LEARNER SHOULD BE ABLE TO DESCRIBE HOW ELECTRIC ENERGY IS DISTRIBUTED AND CONSUMED IN ORDER TO ENSURE ELECTRIC POWER SAVING AND SAFETY</p>	<p>THE LEARNER SHOULD BE ABLE TO;</p> <ul style="list-style-type: none"> UNDERSTAND THE DISTRIBUTION OF ELECTRICITY FROM THE SOURCE TO CONSUMER UNITS. (U) 	<ul style="list-style-type: none"> ELECTRIC ENERGY TRANSMISSION POWER LOSSES DURING TRANSMISSION THE ENVIRONMENTAL IMPACT OF POWER TRANSMISSION 	<ul style="list-style-type: none"> VISUAL SIMULATIONS VOLTMETER CONNECTING WIRE DRY CELLS AMMETER BULB MOTOR HEATING COIL LED DIODE METRE RULE 	<ul style="list-style-type: none"> CLASSROOM DEMONSTRATION PROBLEM SOLVING GUIDED DISCUSSION RESEARCH WORK ASSIGNMENT VIDEO SIMULATIONS 	THE LEARNER UNDERSTANDS HOW ELECTRIC ENERGY IS TRANSMITTED FROM THE GENERATION PLANT TO WHERE IT IS CONSUMED AND WHY IT IS TRANSMITTED OVER LONG DISTANCES AT VERY HIGH VOLTAGE			
2	04			ELECTRIC DISTRIBUTION		<p>THE LEARNER SHOULD BE ABLE TO DESCRIBE HOW ELECTRIC ENERGY IS DISTRIBUTED AND CONSUMED IN ORDER TO ENSURE ELECTRIC POWER SAVING AND SAFETY</p>	<ul style="list-style-type: none"> UNDERSTAND THE ENERGY TRANSFORMATIONS IN COMMON DOMESTIC ELECTRICAL APPLIANCES AND HOW ENERGY CAN BE SAVED. (U) UNDERSTAND HOW TO USE MAINS ELECTRICITY SAFELY AND KNOW THE INSULATION COLOUR CODES USED IN DOMESTIC WIRING. (U, K, S) 			<ul style="list-style-type: none"> HOUSEHOLD WIRING ELECTRICAL SAFETY 		THE LEARNER UNDERSTANDS ELECTRICITY IS DISTRIBUTED FOR CONSUMPTION, THE COLOUR CODES USED IN DOMESTIC WIRING AND HOW FUSED ARE CONNECTED TO THE LIVE WIRE,	
3 AND 4	08			ELECTRIC CONSUMPTION		<p>THE LEARNER SHOULD BE ABLE TO DESCRIBE HOW ELECTRIC ENERGY IS DISTRIBUTED AND CONSUMED IN ORDER TO ENSURE ELECTRIC POWER SAVING AND SAFETY</p>	<ul style="list-style-type: none"> KNOW HOW TO READ A DOMESTIC ELECTRICITY METER AND ITS SIGNIFICANCE. (K, U, S) 			<ul style="list-style-type: none"> ELECTRICAL APPLIANCES COST OF ELECTRICITY CONSUMPTION USING MAINS ELECTRICITY SAFELY 		THE LEARNER UNDERSTANDS HOW ENERGY TRANSFORMATIONS OCCUR IN ELECTRICAL APPLIANCES AND THE IMPORTANCE OF USING ENERGY SAVING APPLIANCES	
6 AND 7	06			ENERGY SAVING		<p>THE LEARNER SHOULD BE ABLE TO DESCRIBE HOW ELECTRIC ENERGY IS DISTRIBUTED AND CONSUMED IN ORDER TO ENSURE ELECTRIC POWER SAVING AND SAFETY</p>	<ul style="list-style-type: none"> APPRECIATE THE IMPORTANCE OF ENERGY SAVING APPLIANCES. (U, S, V/A) 			<ul style="list-style-type: none"> WAYS OF SAVING ELECTRICAL ENERGY IN DOMESTIC APPLIANCES IMPORTANCE OF SAVING ELECTRICAL ENERGY 		THE LEARNERS UNDERSTANDS HOW ELECTRIC ENERGY CAN BE SAVED AND THE IMPORTANCE OF SAVING ELECTRIC ENERGY	
	02			ACTIVITY OF INTEGRATION (ELECTRIC ENERGY DISTRIBUTION AND CONSUMPTION)									
8	04	MODERN PHYSICS	ATOMIC MODELS	THE STRUCTURE OF THE ATOM	<p>THE LEARNER SHOULD BE ABLE TO APPRECIATE THE DIFFERENT ATOMIC MODELS AND HOW THEY ARE USED TO EXPLAIN THE BASIC STRUCTURE OF THE ATOM</p>	<p>THE LEARNER SHOULD BE ABLE TO;</p> <ul style="list-style-type: none"> UNDERSTAND THE STRUCTURE OF THE ATOM IN TERMS OF THE POSITIVE NUCLEUS AND NEGATIVE ELECTRONS. (U) 	<ul style="list-style-type: none"> UNDERSTANDING THE STRUCTURE OF THE ATOM THE ATOMIC NOTATION ATOMIC NUMBER AND MASS NUMBER ISOTOPES 	<ul style="list-style-type: none"> INTERACTIVE VISUAL SIMULATIONS ZINC PLATE SHEET COLOURED SEEDS POLYTHENE ROD 	<ul style="list-style-type: none"> CLASSROOM DISCUSSION EMPHASISING THAT EACH MODEL WAS PROPOSED TO EXPLAIN THE NEWLY DISCOVERED EXPERIMENTAL ANOMALIES. PROBLEM SOLVING GROUP WORK ASSIGNMENT GUIDED DISCUSSION TRADITIONAL EXPOSITION VIDEO SIMULATION 	THE LEARNER UNDERSTANDS THE MEANING OF THE ATOM IN TERMS OF A POSITIVE NUCLEUS AND NEGATIVE ELECTRONS AND UNDERSTANDS THE CONCEPTS OF ATOMIC NUMBER AND ATOMIC MASS			
9	04			THE TIMELINE OF ATOMIC MODELS		<ul style="list-style-type: none"> UNDERSTAND THE TERMS: ATOMIC NUMBER, MASS NUMBER AND ISOTOPES, AND USE THEM TO REPRESENT DIFFERENT NUCLIDES. (K, U) 	<ul style="list-style-type: none"> DALTON'S ATOMIC MODEL RUTHERFORD'S ATOMIC MODEL 				THE LEARNERS UNDERSTANDS THE ATOMIC MODELS AND THEIR LIMITATIONS AND HOW THE MODELS WERE MODIFIED OVER TIME TO EXPLAIN NEW EXPERIMENTAL OBSERVATIONS		
10 AND 11	06			EJECTION OF ELECTRONS FROM METALS		<ul style="list-style-type: none"> UNDERSTAND THE METHODS BY WHICH ELECTRONS ARE EJECTED FROM ATOMS AND HOW THESE ELECTRONS ARE USEFUL. (U, V/A) 	<ul style="list-style-type: none"> PHOTOELECTRIC EFFECT CATHODE RAYS X-RAYS 				THE LEARNER IS ABLE TO EXPLAIN THE HOW ELECTRONS ARE RELEASED FROM METALS AND THAT THESE ELECTRONS ARE USEFUL		
	02			ACTIVITY OF INTEGRATION (ATOMIC MODELS)									

REFERENCE:

1. A.F. ABBOT (1989), PHYSICS, 5TH EDITION HEINEMAN EDUCATIONAL PUBLISHERS, ENGLAND.
2. ATKINSON A (1993), COMPLETE JUNIOR PHYSICS, INTERNATIONAL EDITION, LONGMAN PUBLISHERS.
3. JOHN AVISON (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.4 LEARNERS' BOOKS AND S.4 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>.

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