

SCHEME OF WORK SCIENCE P.7 TERM ONE

E.L.O: The learner develops appreciation for the human body as a system of muscles -develops knowledge and skills for maintaining the body on system.

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	W	P THE	TOP	S/TO	COMPI	ETENCES	CONTENT	MTD/tec	Indicator	ACTIVIT	IMS	RES	F
	K	D ME	IC	PIC				hnique	s of life skills and values	Y			I
					SUBJECT	LANGUAGE							
	1	1 HU	MU	TYP	The learner	-sings songs	SKELETAL SYSTEM	Discussio	Accuracy	-Define	Α	BIO	
		& MA 2 N	SC ULO	ESO F	-Defines the term	about bones -recites rhymes	-Skeleton is supporting structure of the body.	n	Fluency	skeleton -Identifies	char t	LO GY	
		BO DY	SKE	SKE LET	skeleton	-spells, reads, writes the	Types of skeleton -Endo (examples)	Illustratio n	Asking questions	types of skeleton	sho wing	FO R	
			AL SYS TE M	AL	-mentions the types of skeleton	wordswrites guided notes on the system	-Exo (examples of organisms) -Hydro static (definition and examples of organisms under each).	Observati on	Concern Taking a decision		a hum an bod	EAS T AFR ICA	
						•	,	Think			У		
		3 & 4		Func tion of skele tons	-Mentions the functions of skeletons	-recites rhymes about the skeleton Reads words and sentences	Functions of a skeleton i. Protects delicate parts of the body ii. provides room for muscle attachment iii. Gives the body shape	pair and share	Accuracy Fluency Asking questions Concern	Mentionin g the function of the skeleton	A char t Mod el of	Co mp Pri. SCI BK 4	

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						about the	iv. manufactures body cells		Taking a		skel	
L	\bot					skeleton	v. Stores mineral salts		decision		eton	<u> </u>
	5 & 6			STR UCT URE OF THE HUM AN SKE LET ON	Draws and labels the human skeleton	-Reads and spells the names of the parts correctly	THE HUMAN SKELETON (diagram)		Accuracy Fluency Asking questions Concern Taking a decision	Drawing and labeling the human skeleton	A char t Mod el of a skel eton	P.7 Curr iculu m
	7 & 8			BON ES Clas sifica tion of bone s	-Defines the term bones -Identifies the classes of bones -Draws and gives examples of bones	Pronounces and spells the terms correctly -writes guided notes	TYPES OF BONES -bones are hard tissues that make up the skeleton TYPES OF BONES -short bones -Long bones -flat bones -irregular shaped bones (draw and give examples under each)	Discussion Illustration Observation Think pair and share	Accuracy Fluency Asking questions Concern Taking a decision	-Defining bones -identify the types of bones	A char t Mod el of skel eton Real bon es	Intro duct ion to Biol ogy
2	2 1 & 2	HU MA N BO DY	MU SC ULO SKE LET AL SYS TE M	JOIN TS	-Defines joints -Identifies the types of joints -Lists types of movable joints -Identifies the immovable joints on the body.	-shares experience about one's own skeleton -reads words, sentences and stories about joints Uses given words in sentences correctly	JOINTS -a joint is a place where two or more bones meet. CLASSES OF JOINTS -movable -immovable TYPES OF JOINTS -Hinge –saddle joint -Ball and socket -gliding -pivot IMMOVABLE JOINTS -suture joints	Think pair and share	Accuracy Fluency Asking questions Concern Taking a decision	-Defines joints -Identifies types of joints - mentions types of movable joints	A char t sho wing joint s Mod el of skel eton	Intro duct ion to Biol ogy P.7 curr

	3 & 4			HIN GE JOIN TS	-Describes a hinge joint -Mentions examples of hinge joints -Draws and labels hinge joints -mentions functions of the parts	-spells ,reads, writes sentences about hinge joints correctly	HINGE JOINTS -Allow movement in one plane direction Examples of hinge joints -knee, elbow The knee (diagrams) The elbow Function of the parts	Think pair and share	Accuracy Fluency Asking questions Concern Taking a decision	Draws and labels a hinge joint	Mod el of skel eton	Co mp Prim ary Scie nce
1 1	5 & 6			BALL AND SOC KET	-Describes a ball and socket joint -Gives examples of a ball and socket joint -Draws and labels the ball and socket joints -names the other movable joints	-spells correctly Uses the words Writes sentences about ball and socket joints	BALL AND SOCKET JOINT -Allows movement in all direction Examples of ball and socket joint -shoulder -pelvis OR hips Diagram of shoulder and pelvis Other movable joints Pivot – neck Gliding – ankle -wrist	Discussion Explanation Illustration Observation Discovery	Accuracy Fluency Asking questions Concern Taking a decision	Draws and labels a ball and socket joint	A char t Mod el of skel eton	Biol ogy for East Afric a
	7 & 8	HU MA N BO DY	MU SC ULO SKE LET AL SYS TE M	MUS CLE S	-Defines muscles -Mentions the types of muscles -states the function of muscles	-Reads and spells the terms correctly -Tells stories about muscles	MUSCLE- bundle of elastic fibres that stretch to cause movement Types of muscles -voluntary -involuntary -cardiac -function of muscles	Think pair and share	Accuracy Fluency Asking questions Concern Taking a decision	Defines muscles -identify the types of muscles -state the function	A char t Mod el of skel eton	Co mp Pri. SciB k 4

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										of		
										muscles		
3	1 & 2			THE BICE PS AND TRIC EPS	-Draws and labels the arm showing the biceps and triceps -Explains the antagonistic action of the biceps and triceps	- spells and pronounces the terms correctly.	MUSCLES OF THE ARM (diagram of biceps and triceps) Action of the muscles When the arm is i)bent ii)straight	Observation Illustration Demonstration	Accuracy Fluency Asking questions Concern Taking a decision Logical reasonin g	-Draws the arm showing the biceps and triceps -Explains the action of the muscles when the arm is straight and bent	Mod el of bice ps and trice ps Mod el of skel eton	Intro duct ion to Biol ogy
	3 & 4			DISE ASE S AND DISO RDE RS	-Identifies the disorders of the skeletal system -Explains the first aid for the disorders	- tell stories about the disorder of the skeleton Spells words and pronounces correctly	DISORDERS -sprain —Injury on a ligament -strain- Injury on a tendon -Fracture — broken or cracked bone in the body -Dislocation- displacement of a bone from its position (First aid for each)	Think pair and share	Accuracy Fluency Asking questions Concern Taking a decision	-Identifies the disorders of the skeletal system	Mod el of skel eton	Biol ogy for EAS T AFR ICA
	5 & 6	HU MA N BO DY	MU SC ULO SKE LET AL SYS	DISE ASE S	-Identifies diseases of the skeletal system -explains health habits for proper	Shares experiences about skeletal diseases	Diseases of the skeletal system 1)Polio 2) Rickets 3) Arthritis 4) bone cancer -causes of each -signs and symptoms -Prevention and control	Discussio n Observati on Illustratio n	Accuracy Fluency Asking questions Concern	Identify the disease of the skeletal system		P.7 curr

	TE M		working of skeletal system		Health habits -physical body exercises -Balanced diet -don't play rough games -Proper posture -Immunization	Discover y	Taking a decision			
7 S. 3		BOD Y POS TUR E AND PHY SICA L EXE RCIS E	-Defines the term body posture -Gives the importance of Good body posture -Mentions the dangers of poor body posture	-Act out position on body posture	BODY POSTURE -The way you position your body in everything you do Body positions -standing -walking -sleeping Importance of good body posture Dangers of poor body posture Importance of physical body exercise	Discussion Observation Illustration Discovery	Accuracy Fluency Asking questions Concern Taking a decision	1)What is body posture? 2) state the importan ce of body posture 3)Identify the dangers of poor posture	P.: cu	

E.L.O: –appreciate the importance of the excretory system to people -acquires the necessary scientific knowledge, principles and skills for maintaining the efficiency of the system.

4	1	Т	THE	The	The learner	Names	The excretory organs	Decision	Giving	Defining	Cha	Mk
	а	h	EXCRE	excre	defines the	excretory	1.Definition of terms excretion,	making	instructio	relevant	rts	sciB
	n	е	TORY	tory	terms used	organs	defecation secretion,		ns	term		k 7
	d		SYSTE	orga			metabolism		Asking			
	2	h	M	ns	Mentions the	Spells new	2. Organ for excretion skin,,		questions			P.7
		u			organs for	words correctly	kidney, lungs, liver		Taking			curri
		m			excretion		3. excretory products carbon		decision			culu
		а					dioxide, water vapour, sweat,		Fluency			m
		n			Mentions		nitrogenous compounds		Articulati			pag
		b			their				on			e 79
		0			excretory							
		d			products							
		У			term							

Пз	٠ ا	Т	The	Describes		The skin	Self	Giving	Drawing	char	Und
a		h	skin	the human		This is the largest and	awarenes	instructio	and	t	erst
			SKIII	skin	Spells terms	countinuous layer that covers	S	ns	labeling	'	andi
		e H		Drawing and	correctly.	-	3	115	the skin		
4					correctly.	most organs.	Critical	Aakina	lile Skill		ng scib
4	1	u		labelling the		Ctanatana af tha alain		Asking	Otatia a		k 7
		m		skin	-writes guided	Structure of the skin	thinking	questions	Stating		K /
		a		0	notes on the			-	its		D -
		n		States the	human skin		Creative	Taking	functions		P.7
		b		functions of			thinking	decision			curri
		0		the parts of		Made of two parts					culu
		d		the skin		-Epidemis and dermis		Evaluatin			m
	'	у				-Epidermis has three layers		g facts			pag
						layer					e 79
						-Cornified					
						-Granular layer					
						-Malpigian layer					
5	5		Func	The learner	-reads words	Functions of the skin	observati	Giving	Stating	Cha	P.7
			tion	States the	and sentences	-States the function of the skin.	on	instructio	the	rts	curri
			of	function of	about the skin			ns	function		culu
			the	the skin		-Skin disorders		Asking	of the	E-	m
			skin,			Cuts, corns, burns		questions	skin	lear	pag
			disea	Identifies				Taking		ning	e 79
			ses,	disorders		Skin diseases		decision	Naming		
			disor			Boils, impetigo, ring worms,		Evaluatin	skin		
			ders	Identifies		leprosy	Discussio	g facts			
6	3			skin			n	Taking	Naming		
				diseases		Causes, signs/symtoms,		decision	skin		
				and their		prevention		Fluency	disorders		
				causes				Articulati			
							Illustratio	on			
							n				

	8			The urina ry syste m	Draws and labels the structure of the urinary system States the functions of the parts of the urinary system	Spells and reads given words correctly	The urinary system Structure of urinary system Functions of the parts of the urinary system Ureter, urethra, urinary bladder, sphincter muscles	Discussio n observati on	Decision making Critical thinking	drawing and labeling the structure of the urinary system	Cha rt E- lear ning	P.7 curri culu m pag e 79M k sciB k 7
5	2	Thehumanbody	Excret ory system	The kidne y	The learners Draws and names the parts of the kidney States the function of the parts	-writes guided notes on the kidney. -reads words and sentences about kidney	The kidney (structure) Functions of the parts of the kidney i.e Cortex filters blood Medulla – re-absorbs water Pelvis – stores urine	Guided discovery explanati on	Critical thinking	Drawing and labeling the kidney	char t	P.7 curri culu m pag e 79U nder stan ding scib k 7

4	Dise ases and healt h habit s	The learner identifies diseases of the kidney, signs and symptoms States ways of maintaining the kidney	Recites rhymes and poems about the kidney	Kidney diseases -Kidney diseases -Kidney failures -Kidney stones, cancer, nephritis signs and symptoms Health habits -Drink enough water -Have a balanced diet	Guided discovery Illustratio n Observati on Observati on		Identifyin g diseases of the kidney	char t	Und erst andi ng scie nce boo k 7 P.7 curri culu m pag
6	The lungs	Draws and labels the respiration system States the functions of the parts	Reads words and sentences about the lungs on excretory	Structure (well labelled) -Functions of the parts -Why they are both excretory and respiratory	Observati on Illustratio n	Creative Thinking Decision making	Drawing and labeling the respirator system	Cha rt	e 79 Mks cibk 7 P.7 curri culu m pag e 79

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	7	Conc	The learner	-spells and	Respiration	Discover	Effective	Defining	Cha	Fou
	а	ept	-explains the	pronounces	-definition	у	communi	respiratio	rts	ntai
	n	of	term	terms correctly	-types of respiration	Guided	cation	n .	and	n
	d	respi	respiration	_	-aerobic and anaerobic	discussio			mod	boo
	8	ratio	-identifies	Writes	-the repiratory organs of	n	Critical	Giving	els	k 7
		n	and	sentences	different organisms		Thinking	the		
			differentiates	about	-importance of respiration			importan		P.7
			aerobic	respiration	an personal extraophical extraor		Problem	ce of		curr
			respiration	correctly			solving	respiratio		pg
			from	,				n		79
			anaerobic							
			respiration							
			-states the							
			importance							
			of respiration							
6	3 1	The		Tells stories	Breathing	Explanati	Giving	Defining	Real	Und
6	3 1	The breat	Explains the term		Breathing -Is the taking in and out of air	Explanati on	Giving instructio	Defining breathing	Real lung	Und erst
6	3 1		Explains the	Tells stories about breathing	Breathing -Is the taking in and out of air -In halation and exhalation	-	_		1	
6		breat	Explains the term	about breathing	-Is the taking in and out of air -In halation and exhalation	-	instructio ns		lung	erst
6	2	breat hing	Explains the term		-Is the taking in and out of air	on	instructio	breathing Explainin	lung s of	erst andi
6		breat hing mech	Explains the term breathing	about breathing Explains the	Is the taking in and out of air In halation and exhalation Model of the breathing	on Discussio	instructio ns Asking questions	breathing	lung s of an	erst andi ng
6		breat hing mech anis	Explains the term breathing Compares	about breathing Explains the breathing	Is the taking in and out of air In halation and exhalation Model of the breathing	on Discussio	instructio ns Asking	breathing Explainin g the	lung s of an ani mal	erst andi ng scib
6		breat hing mech anis	Explains the term breathing Compares inspiration to	about breathing Explains the breathing	-Is the taking in and out of air -In halation and exhalation Model of the breathing mechanism	on Discussio	instructio ns Asking questions Taking	Explainin g the breathing	lung s of an ani	erst andi ng scib
6		breat hing mech anis	Explains the term breathing Compares inspiration to	about breathing Explains the breathing	-Is the taking in and out of air -In halation and exhalation Model of the breathing mechanism -Composition of inhaled and	on Discussio	instructions Asking questions Taking decision	Explainin g the breathing mechanis	lung s of an ani mal e.g	erst andi ng scib k 7
6		breat hing mech anis	Explains the term breathing Compares inspiration to expiration	about breathing Explains the breathing	-Is the taking in and out of air -In halation and exhalation Model of the breathing mechanism -Composition of inhaled and	on Discussio	instructions Asking questions Taking decision Evaluatin	Explainin g the breathing mechanis	lung s of an ani mal e.g a	erst andi ng scib k 7
6		breat hing mech anis	Explains the term breathing Compares inspiration to expiration Explains the	about breathing Explains the breathing	-Is the taking in and out of air -In halation and exhalation Model of the breathing mechanism -Composition of inhaled and	on Discussio	instructions Asking questions Taking decision Evaluating facts	Explainin g the breathing mechanis	lung s of an ani mal e.g a	erst andi ng scib k 7 P.7 curri
6		breat hing mech anis	Explains the term breathing Compares inspiration to expiration Explains the breathing	about breathing Explains the breathing	-Is the taking in and out of air -In halation and exhalation Model of the breathing mechanism -Composition of inhaled and	on Discussio	instructions Asking questions Taking decision Evaluating facts Fluency	Explainin g the breathing mechanis	lung s of an ani mal e.g a	erst andi ng scib k 7 P.7 curri culu m
6		breat hing mech anis	Explains the term breathing Compares inspiration to expiration Explains the breathing	about breathing Explains the breathing	-Is the taking in and out of air -In halation and exhalation Model of the breathing mechanism -Composition of inhaled and	on Discussio	instructions Asking questions Taking decision Evaluating facts Fluency Articulati	Explainin g the breathing mechanis	lung s of an ani mal e.g a	erst andi ng scib k 7 P.7 curri culu
6		breat hing mech anis	Explains the term breathing Compares inspiration to expiration Explains the breathing	about breathing Explains the breathing	-Is the taking in and out of air -In halation and exhalation Model of the breathing mechanism -Composition of inhaled and	on Discussio	instructions Asking questions Taking decision Evaluating facts Fluency Articulati	Explainin g the breathing mechanis	lung s of an ani mal e.g a	erst andi ng scib k 7 P.7 curri culu m pag
		breat hing mech anis	Explains the term breathing Compares inspiration to expiration Explains the breathing	about breathing Explains the breathing	-Is the taking in and out of air -In halation and exhalation Model of the breathing mechanism -Composition of inhaled and	on Discussio	instructions Asking questions Taking decision Evaluating facts Fluency Articulati	Explainin g the breathing mechanis	lung s of an ani mal e.g a	erst andi ng scib k 7 P.7 curri culu m pag

[] ;	3	Dise	Mentions the	Names,	-Diseases of the respiratory	Illustratio	Giving	Identifyin	char	P.7	Γ
		ases	diseases	Spells and	system.	n	instructio	g	t	curri	l
		of	that affect	Pronounces	-They are either infectious or		ns	diseases		culu	l
.	4	the	the system	given words	non infectious			of the		m	l
		syste		correctly	-Infectious dieseases e.g tuber		Asking	respirator		pag	l
		m	States the		culosis, influenza Pneumonia		questions	system		e 79	l
			health habits								l
			of the		-Non infectious – lung cancer		Taking				l
			system		Signs and symptoms		decision				l
											l
					-Health habits		Evaluatin				l
							g				

Learning outcomes:
The importance of electricity and magnetism on the modern world of work
-develops the necessary scientific knowledge, principles and skills to solve problem related to electricity and magnetism.

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5	3	Elect	TYP	1.Defines	-reads and	Electricity	Discover	-	-Defining	Cha	Cha
8	Matte	ricity	ES	the term	pronounces	1.Definition	у	Accuracy	electricity	rt	rts
6	ē		AND	electricity	words correctly	2.Structure of an atom		-fluency	-Identify		
	and		SOU	2. Draws the	•	3. Forms of electricity	-	-asking	the	Dry	
			RCE	structure of		-static energy	discussio	questions	sources	cells	
	energy		S OF	an atom		-current energy	n	-concern	of		
	erg		ELE	3. Mentions		4. sources of electricity, sun		-taking a	electricity		Bre
	₹		CTRI	sources of		fuels, running water, steam.	-	decision	-Types of		athi
			CITY	electricity		5. Types of electricity	illustratio		electricity		ng
				-		-solar electricity	n	-logical			mec
				Differentiate		-hydro electricity		reasonin			hani
				s AC from		-Thermal electricity	-think	g			sm
				DC		-atomic electricity	pair and				
				Identifies the		•	share				
				types of							
				electricity							

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7	Ш		AN	-Defines an	Spells and	AN ELECTRIC CIRCUIT	Observati	-	What is	Dry	Co
	EFE	E	ELE	electric	pronounces	-It is a complete path of electric	on	Accuracy	an	cells	mp
	\circ		CTRI	circuit	term correctly	current		-fluency	electric		Pri.
	TRICITY	(С			-Parts of an electric circuit.	Illustratio	-asking	circuit	Wire	SCI
	$\overline{\Omega}$	(CIRC	-Identifies		Bulb, switch, conductor, fuse,	n	questions		S	Bk.
	7	Į	UIT	the parts of		dry cell.		-concern	Identify		7
	`			an electric	Narrates	Making a simple electric circuit.	Discussio		the parts	Torc	
				circuit	procedures		n	-taking a	of an	h	p.7
					•			decision	electric		curr
				-explains		Making an electric circuit	Experime		circuit	Bulb	
8				how to make		Types of circuits	ntation	-logical			
				a simple		-series		reasonin	Explains	Fus	
				electric		-parallel		g	how to	е	
				circuit		'		3	make a		
									simple		
									electric		
									circuit		
7 1	EL	E	ELE	States of the	Writes, spells	Functions of the parts of an	Observati	-	Stating	Elec	P.7
8	EC		CTRI	function of	and	electric circuit	on	Accuracy	the	tric	curr
2			C	the different	pronounces	Bulb – produces light when		-fluency	function	circ	
	CIT		CIRC	parts of an	given words	circuit is complete.	Illustratio	-asking	of the	uit	
	Υ		UIT	electric	correctly	Switch – breaks and completes	n	questions	parts of		
		((Fun	circuit	,	circuit at user's will		-concern	an		
		Ì	ction			Dry cell- source of energy	Discussio	-taking a	electric		
			of			Wire- conducts electricity	n	decision	circuit		
		t	the			Ammeter- measures current		-logical			
		l r	parts			Fuse- Melts and breaks the	Experime	reasonin			
		'	' I			circuit when the voltage	ntation	g			
						increases.		•			
						Volt meter- measures voltage					

			1		T	1		1		
3		Cond	-defines		Conductors and insulators	Observati	-	1-	Elec	
8	ž.	uctor	conductors	-spells, reads,	1)Definition	on	Accuracy	Defining	tric	
4	l l	s and	and	writes and uses	2) Examples			terms	circ	
		insul	insulators	the words	3)Importance of conductors	Illustratio	-fluency	2-Giving	uit	
		ators	-Gives	correctly	and insulators	n		example		
			examples of				-asking	of	Woo	
			conductors	Writes	Testing for conductivity	Discussio	questions	conducto	d	
			and	sentences		n		rs and		
			insulators	about			-concern	insulation		
			-states the	conductors and		Experime		3-	Rub	
			importance	insulators		ntation	-taking a	Importan	ber	
			of				decision	ce of		
			conductors					conducto		
			and				-logical	rs and	Coin	
			insulators				reasonin	insulators	S	
							g			
			-tests for							
			conductivity							
									Met	
									als	

Learning outcomes:
The importance of electricity and magnetism on the modern world of work.
-develops the necessary scientific knowledge, principles and skills to solve problem related to electricity and magnetism

CIRCU IT Mentions the cause of a short circuit shocks about electric shocks resistance to the flow of current 2. causes Poor insulation aging wires, damage by rodents, over loading 3. Effects/dangers of short circuits shocks about electric shocks resistance to the flow of current 2. causes Poor insulation aging wires, damage by rodents, over loading 3. Effects/dangers of short circuits shocks resistance to the flow of current 2. causes Poor insulation aging wires, damage by rodents, over loading 3. Effects/dangers of the flow of current 2. causes Poor insulation aging wires, damage by rodents, over loading 3. Effects/dangers of the flow of current 2. causes Poor insulation aging wires, damage by rodents, over loading 3. Effects/dangers of the flow of current 2. causes Poor insulation aging wires, damage by rodents, over loading 3. Effects/dangers of the flow of current 2. causes Poor insulation aging wires, damage by rodents, over loading 3. Effects/dangers of the flow of current 2. causes Poor insulation aging wires, damage by rodents, over loading 3. Effects/dangers of the flow of current 2. causes Poor insulation aging wires, damage by rodents, over loading 3. Effects/dangers of the flow of current 2. causes Poor insulation aging wires, damage by rodents, over loading 3. Effects/dangers of the flow of current 2. causes Poor insulation aging wires, damage by rodents, over loading 3. Effects/dangers of the flow of current 2. causes Poor insulation aging wires, damage by rodents, over loading 3. Effects/dangers of the flow of current 2. causes Poor insulation aging wires, damage by rodents, over loading 3. Effects/dangers of the flow of current 2. causes Poor insulation aging wires, damage by rodents, over loading 3. Effects/dangers of the flow of current 2. causes Poor insulation aging wires, damage by rodents, over loading 3. Effects/dangers of the flow of current 2. causes Poor insulation aging wires, damage by rodents, over loading 3. Effects/dangers of the flow of current 2. causes Poor insulation aging wi		TELEOT	OLIOD	D.C	01	OLIODE OIDOLUE	01		D . C	-1	0.
CIRCU IT Mentions the cause of a short circuit shocks States the effects of short circuits States the effects of short circuits Suggests ways of preventing short circuits Suggests ways of preventing short circuits Suggests ways of short circuits Suggests ways of property circuits About electric shocks States the cause of a short circuit 2. causes Poor insulation aging wires, damage by rodents, over loading 3. Effects/dangers Fire hazards -electric shock -damage, loss of property 4. Solutions/prevention of short circuits. Suggests ways of property 4. Solutions/prevention of short circuits. Suggests ways of short circuits. Stic cause so fa short circuit wire short circuit with short circuit ary solution on short circuit ary solution short circuit with short circuit with short circuit ary solution short circuit with short circuit ary solution short circuit with short circuit with short circuit with short circuit with short circuit ary solution short circuit with short circuit with short circuit ary solution short circuit with short circuit with short circuit with short circuit ary solution aging wires, damage by rodents, over loading 3. Effects/dangers -concern solution aging wires, damage by rodents, over loading 3. Effects/dangers -concern solution aging wires, damage by rodents, over loading 3. Effects/dangers -concern solution aging wires, damage by rodents, over loading 3. Effects/dangers -concern solution aging wires, damage by rodents, over loading 3. Effects/dangers -concern solution aging wires, damage by rodents, over loading 3. Effects/dangers -concern solution aging wires, damage by rodents, over loading 3. Effects/dangers -concern solution aging wires, damage by rodents, over loading 3. Effects/dangers -concern solution aging wires, damage by rodents, over loading 3. Effects/dangers -concern solution aging wires, damage by rodents, over loading 3. Effects/dangers -concern solution aging wires, damage by rodents, over loading 3. Effects/dangers -concern solution aging wires, d			SHOR					-			Co
IT Mentions the cause of a short circuit Shocks Current 2. causes Poor insulation aging wires, damage by rodents, over loading 3. Effects/dangers -Fire hazards Suggests ways of preventing short circuits Suggests ways of short circuits Suggests ways of preventing short circuits Shocks Current 2. causes Poor insulation aging wires, damage by rodents, over loading 3. Effects/dangers -Fire hazards -electric shock -damage, loss of property 4. Solutions/prevention of short circuits. Market stall Market stall Short circuit - Met -asking question ion Stic -cause ks Electric short circuits -concern short circuit short circuit	&	RICITY	T	short circuit	experiences	1. <u>Definition</u> . A path with low	ation	Accurac	ng the	tric	mp.
of a short circuit States the effects of short circuits States the effects of short circuits Suggests ways of preventing short circuits Suggests ways of short circuits Suggests ways of preventing short circuits Signature Poor insulation aging wires, damage by rodents, over loading 3. Effects/dangers Fire hazards -electric shock -damage, loss of property 4. Solutions/prevention of short circuits. Signature Poor insulation on -fluency circuit -asking question ying stic cause cause ks Electric shock -concern s of a short circuit wire short circuits.	6		CIRCU		about electric	resistance to the flow of		у	term	circ	Prim
States the effects of short circuits Suggests ways of preventing short circuits Suggests ways of preventing short circuits Suggests ways of short circuits Suggests ways of prevention of short circuits Suggests ways of prevention of short circuits.			IT	Mentions the cause	shocks	current	Illustrati		short	uit	ary
States the effects of short circuits Suggests ways of preventing short circuits States the effects of short circuits Suggests ways of prevention of circuits Suggests ways of prevention of short circuits States the effects of short circuits Suggests ways of prevention of short circuits. Suggests ways of prevention of short circuits. Stall Stic cause the effects of short circuit short circuits. Stic cause the effects of short circuit short circuits. Stic cause the effects of short circuit short circuits.				of a short circuit		2. causes Poor insulation	on	-fluency	circuit		SČI
short circuits Suggests ways of preventing short circuits Suggests ways of preventing short circuits Suggests ways of prevention of short circuits. Suggests ways of prevention of short circuits. Suggests ways of property 4.Solutions/prevention of short circuits. Discuss question s the cause ks Electric shock -concern s of a short wire short circuits.						aging wires, damage by			-	Met	
short circuits Suggests ways of preventing short circuits Suggests ways of preventing short circuits Suggests ways of prevention of short circuits. Suggests ways of prevention of short circuits. Suggests ways of property 4.Solutions/prevention of short circuits. Discuss question s the cause ks Electric shock -concern s of a short wire short circuits.				States the effects of		rodents, over loading		-askina	Identif	al	
Suggests ways of preventing short circuits -Fire hazards -electric shock -damage, loss of property 4.Solutions/prevention of short circuits. -Fire hazards -electric shock -damage, loss of property 4.Solutions/prevention of short circuits. -concern so f a short wire short circuits.							Discuss	•	vina		
Suggests ways of preventing short circuits -electric shock -damage, loss of property 4.Solutions/prevention of short circuits. -electric shock -damage, loss of property 4.Solutions/prevention of short circuits. -concern s of a short wire stall -taking a decision							l <u>-</u>	•		Stic	
preventing short circuits -damage, loss of property 4.Solutions/prevention of short circuits. -concern s of a short wire short circuits. -taking a decision				Suggests ways of		-electric shock					Elec
4.Solutions/prevention of short circuits. Market stall short circuit stall decision short circuit stall short circuit stall short circuit stall short circuit stall short circuit short								-concern			1
short circuits. stall -taking a circuit s decision							Market	001100111			
decision				onodits		•		-taking a			-
						Short on outs.	Stan	_	onoun		3
								decision	Statos		Eloo
								1 1			
								•			tric
reasonin effect bulk								reasonin	effect		bulb
								g	of		
									short		P.7
									circuit		curr

7	Identif ies ways in	Dry cells	Elec tric
8 N OF produced 2. chemical; cells are used y	ways	cells	tric
	, ,		
	l in .	J	bulb
RICIT difference between sentences secondary on -fluency	which		P.7
Y primary and about 4.Primary cells- wet and dry	electri		curr
secondary cell electricity from Q -asking -asking	city is		
parts of the dry and	ced		
wet cell	-		
-compares the dry $\backslash \backslash / / / (\backslash)$ -concern	draws		
and wet cell Explan	and		
ation -taking a	labels		
Explains the making Zinc \ lemon decision	wet		
of simple cells Copper	sells		
dilute sulphuric acid -logical	-		
The reasonir	differe		
dry cell Spells and The dry cell g	ntiate		
pronounces	s the		
terms correctly	primar		
Draws and labels a	y from		
dry cell	secon		
	dary		
Discusses the parts	cells.		
of the dry cell	-		
	Draws		
Calculates voltage	and		
in dry cells	labels		
	the		
	dry		
	cells.		

8	1	ELECT	AN	-Draws and labels	-spells and	1) Structure of an electric	-	-	Elec	
	&	RICITY	ELECT	an electric bulb	pronounces	<u>bulb</u>	Accurac	Drawi	tric	
	2		RIC	-states the function	words	2) Function of the parts	У	ng	bulb	
			BULB	of the parts	correctly	Filament, contact, brass cap		and		
				-Mentions the		lead wires- Gases used	-fluency	labeli		
				energy changes in a		3) Energy changes in a bulb	-asking	ng an		
				bulb		Electric → heat →light	question	electri		
							S	c bulb		
				Explains the parts			-concern	-		
				and working of the			-taking a	Menti		
				bulb			decision	oning		
							-logical	the		
							reasonin	functi		
							g	on of		
								the		
								parts		
								of a		
								bulb		

						1		1		
3	ELECT	AN	Draws and labels	Shares	AN ELECTRIC TORCH	Observ	-	-	Elec	Co
&	RICITY	ELECT	an electric torch	experience	1) Parts of an electric torch	ation	Accurac	Drawi	tric	mp
4		RIC		about torches	2)Functions of the parts of a		У	ng	torc	SCI
		TORC	States the function		torch	Illustrati		and	h	Bk.7
		Н	of the parts of a		3)Conditions that make a	on	-fluency	labeli		
			torch		torch fail to work.			ng a		An
					4) Energy changes that take	Discuss	-asking	torch.		elec
			Gives conditions		place in a torch.	ion	question	-		tric
			that fail it to work				S	Statin		torc
								g the		h
			Gives energy			Explan	-concern	functi		
			changes in a torch			ation		on of		Piec
							-taking a	the		es
			Explains the working				decision	parts		of
			of torch					of a		pap
							-logical	torch		а
							reasonin	-		
							g	Identif		Rule
								ying		r
								the		
								energ		P.7
								y		curr
								chang		
								es		
								that		
								take		
								place		
								in a		
								torch		

5	Electrici	Import	-Mentions the	-shares	Importance of electricity	Observ	-	-	P.7
5 &	ty	ance	importance of	experiences	-cooking, lighting running	ation	Accurac	Identif	curr
6		of	electricity	about	machines		У	y the	
		electric	-Identifies	electricity		Illustrati		import	
		ity	advantages and		Advantages and	on	-fluency	ance	
			disadvantages of	Writes	disadvantages of electricity			of	
			electricity	sentences		Discuss	-asking	electri	
			-Mention safety	about uses of	Safety precautions in	ion	question	city	
			precautions of	electricity	electricity		S	-	
			electricity					Menti	
						Explan	-concern	on the	
					Management of electricity in	ation		advan	
					Uganda or current		-taking a	tages/	
							decision	disad	
								vanta	
							-logical	ges of	
							reasonin	electri	
							g	city	
								-	
								Gives	
								safety	
								preca	
								utions	
								of	
								electri	
								city	

_		 •					•				
	7		STATI	-Defines static	-narrates	Static elelctricity	Observ	-	-What	Rule	
	&		С	electricity	procedure for	-Form of electricity that	ation	Accurac	is	rs	
	8		ELECT	-Explains how it is	the	doesn't flow.		у	static		
			RICIT	produced/obtained	experiment	-Produced by friction	Illustrati	-fluency	electri	Pap	
			Υ	-Explains how		-Making static electricity	on		city	ers	
				lightning is caused	Writes down	paper plastic ruler		-asking	-How		
				-Gives safety	the procedure	-Lightning causes	Discuss	question	is it	Phot	
				precautions for	used	advantages , disadvatages	ion	s	produ	o	
				lightening		-safety precautions against		-concern	ced	copi	
						lightning		-taking a	-How	er	
							Explan	decision	is		
						-application of static	ation	-logical	lightni		
						electricity		reasonin	ng		
								g	cause		
								3	d		
Ç	1	Magneti	Types	-Defines a magnet	-spells and	1)A magnet is a piece of	Observ	-	1.Wh	Real	Co
	&	sm	of	Magnetism	pronounces	metal which has the ability to	ation	Accurac	at is	mag	mp
	2		magne	-Identifies the types	terms correctly	attract other magnetic		У	i)a	nets	SĊI
			ts	of magnets.	•	substances	Illustrati	-fluency	magn	-	7
				Differentiates	Writes words	2)Types of magnets Natural	on		et	met	
				magnetic	sentences and	and man made		-asking	ii)mag	als	Und
				substances from	short stories	3)Magnetic and non	Discuss	question	netis	-	erst
				non magnetic	about	magnetic substances	ion	S	m	coin	andi
				-Mention examples	magnetism in	4) Testing for magnetism		-concern	2.lden	s	ng
				of magnetic and non	modern world		Demon		tify	-	SCI
				magnetic	of work		stration	-taking a	the	plas	Bk.7
				substances				decision	types	tics	
							Discove		of	-	Mag
				Explains the			ry	-logical	magn	ston	nets
				classification of				reasonin	ets	es	
				magnets				g			
											Cha
											rts

T 2	MAGN	Proper	States the	Shares	Properties of a magnet	Observ	_	Identif	Cha	P.7
8	ETISM	ties of	properties of a	experiences	i)Like poles repel unlike	ation	Accurac	ying	rt	curr
4	LIIOW			•	poles attract	allon	Accurac	the	11	Cuii
4		a Magne	magnet	on properties of magnetism	ii) A freely suspended	Illustrati	fluency		Real	Co
		iviagne		or magnetism	magnet faces N-S direction	on	-asking	prope rties	mag	mp.
					iii)Greater magnetism is at	OH	question	of a	nets	Sci.
					the poles	Discuss	S	magn	11613	bk 7
					iv)Magnetic lines of force	ion	-concern	et	Nail	Bar
					flow from N to S	1011	-concent	G C	S	ouq
					I now nom iv to o		-taking a		3	e
						Explan	decision		Wire	int.
						ation	-logical		s	sci.
						allon	reasonin			bk 7
							g		Dry	2
							9		cells	
5		Making	-defines the term	Spells terms	1)magnetisation is the	Observ	-	-What	Cha	P.7
8		tempor	Magnetisation	correctly	process of making a magnet.	ation	Accurac	is	rt	curr
6		ary	-Explains clearly		2) Ways of making magnets		у	magn		
		magne	with illustrations	Uses	are	Illustrati	-fluency	etizati	Real	Co
		ts	ways of making a	sentences to	a)stroking	on		on	mag	mp.
			magnet.	describe the	b)induction		-asking	-	nets	Bk 7
			-differentiates	methods of	c)electrical	Discuss	question	Drawi		
			temporary from	making	3)Differences between	ion	s	ng	Nail	
			permanent magnets.	magnets	temporary and permanent		-concern	diagra	s	
					magnets	experim	-taking a	ms		
						entation	decision	showi		
							-logical	ng	Wire	
						Think	reasonin	how	s	
						pair	g	to		
						and		make	_	
						share		а	Dry	
								magn	cells	
								et.		

-What	-	Co
:_		CU
is	spe	mp
dema	aker	SCI
gnetiz	S	Bk.7
ation		
-Ways	-	Spe
of	mot	aker
diama	ors	S
gnetis		
m	-	Mag
-	elec	nets
States	tric	
the	bells	
uses		P.7
of	-	curr
magn	dyn	
ets	amo	Nelk
	S	son
		and
Makin		Park
g an		er
electri		pag
c bell		е
-		207
explai		-4
ning		
how it		
works		
	gnetiz ationWays of diama gnetis m States the uses of magn ets Makin g an electri c bell explai ning how it	gnetiz ationWays - of mot diama ors gnetis m - elec tric bells uses of - dyn amo s Makin g an electri c bell - explai ning how it

						T=					
	3	ENERG	ENVIR	-Defines relevant	Shares	Review of P.6 Work	Observ	-fluency	-	Real	
	& r		ONME	terms e.g. environ	experiences	Energy resources in the	ation		Defini	plan	Curr
	4		NT	resources, habitat	about	Environment	<u></u>	-	ng	ts	r
	E			biodiversity , food	resources in	1)Definition of terms	Illustrati	accurac	releva		
	r			chain	the	environment, resources,	on	У	nt	-	Со
	\			-Mentions the	environment	habitat, biodiversity, food	_	ļ _.	terms	ani	mp.
	i			components of the		chain, web e.t.c.	Demon	-logical	-	mal	Sci.
	C			environment	Uses the	2) Components of the	stration	reasonin	menti	s	bk 7
	r			-Differentiates the	given words in	environment		g	oning		1
	r			types of resources	sentences	3)Type of resources	Discuss	l i	the	-	Mk
	€]		correctly	4) Food chain and food web	ion	-asking	comp	wat	int.
	r						<u> </u> _ ,	question	onent	er	bk 7
	t]				Explan	S	s of	ļ į	
]				ation		the .	ļ į	
									enviro		1
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]						Differ	ļ į	1
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]]		of		
]]		resour		
\vdash	_	Enares	ENED	Defines the tarre	oings see ===	Energy recoveres	Ohaami	fluoros	ce 1 Defi	The	
	5	Energy	ENER	-Defines the term	-sings songs	Energy resources	Observ	fluency	1.Defi	The	1
	&	resourc	GY	energy resource	-recites	Definition of energy	ation		ne the	envi	1
	6	es in	RESO	-Mentions examples	rhymes	resources	Illinotes - 4!	-	term	ron	1
		the	URCE	of energy resources	writon avided	Examples of energy	Illustrati	accurac	energ	men	1
		environ	S FROM	-Mentioning energy	-writes guided	resources- sun, water,	on	У	у	t	1
		ment	THE	resources from the	notes on	animals, plants, minerals	Domes	logical	resour	ļ į	1
				sun and water	energy	Mentioning Energy	Demon	-logical	ce		1
			SUN AND	-carries simple	resources	resources from the sun and	stration	reasonin	2.lden		1
			WATE	experiment using	from the sun and water	water.	Discuss	g	tifying		1
			R	energy from steam	and water		ion	ackina	energ		1
			\ \ \	(water)			1011	-asking	y		1
]					question	resour		1
	丄						1	S	ce	1	1

				1	I -	I				
	7		ENER	-Mention the energy	-Shares	1. Energy Resources from	Explan	fluency	-	
	&		GY	resources from wind	experiences	wind- Turns windmills,	ation		menti	
	8		RESO	-Mention the energy	about the	moves kites, sails boats		-	oning	
			URCE	resources from	mentioned	dries clothes		accurac	the	
			S	minerals	energy	2)Minerals- petroleum,	Critical	У	energ	
			FROM	-States the uses of	resources	Natural gas, coal, uranium	thinking		у	
			WIND/	mineral resources		3) Uses of petroleum, coal		-logical	resour	
			AIR	-suggests the		uranium.		reasonin	ce	
			AND	disadvantages of		4)Disadvantages of		g	from	
			MINER	<u> </u>		petroleum and uranium		J	wind	
			ALS	uranium		•		-asking	-	
				-carries out simple				question	menti	
				experiment using				s	oning	
				energy from wind					energ	
]					v	
									resour	
									ce	
									from	
									miner	
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1	1	ENERG	ENER	-Mentions the	Shares life's	Energy resources from	fluency		Со
_		LINERG				Energy resources from	nuency	- NA C	
1	&	Y	GY	energy resources	experience on	<u>plants</u>		Menti	mp.
	2	RESOU	RESO	from plants and	biogas	1)Food, fuel, biogas natural	-	ons	Pri.
		RCES	URCE	animals		fibres	accurac	the	SCI
		IN THE	S	-Explains how to		2)Animals Food, biogas,	У	energ	Bk.7
		ENVIR	FROM	make biogas		cheap labout transport		у	
		ONME	PLANT	-draws the biogas		3)How to make biogas.	-logical	resour	P.7
		NT	S AND	digester.			reasonin	ce	curr
			ANIMI	-explains the			g	from	
			ALS	working of biogas				plants	
				digester.			-asking	and	
				-explains the			question	anima	
				advantages of			S	ls.	
				biogas				-	
								Explai	
								ning	
								how	
								to	
								make	
								bioga	
								s	

Learning outcomes

- -appreciates the co-existence of things in the environment
 -develops an understanding of the interdependence of things in the environment
 -develops awareness of different energy resources existing in the environment and their uses
 -develops the sense of respect for the environment as a resource base.

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3 &	CONS	-Defines the term	-sing songs	Conservation of the	Observ	-	-Give	Fou
	ERVA	environmental	-recites	environment	ation	Accurac	reaso	ntai
4	TION	conservation	rhymes about	1)This is the protection and		у	ns for	n
	OF	-Gives reasons for	conserving the	preservation of resources of	Illustrati		conse	Inte
	THE	conservation of the	environment	the environment.	on	-fluency	rvatio	grat
	ENVIR	environment		2)Resources that need			n of	ed
	ONME			conservation-forests, wildlife	Demon	-asking	resour	Pri
	NT			water, minerals, soil rocks.	stration	question	ce in	SCI
				3)Reasons for conservation		S	the	BK.
				of resources in the	Discuss		enviro	7
				environment	ion	-concern	nment	
					Explan	-taking a		
					ation	decision		
						-logical		
						reasonin		
						g		
5	CONS	Mentions ways of	-reads and	1)How to conserve	Observ	-	Explai	Chal
&	ERVA	conserving	spells new	resources from soil	ation	Accurac	ning	kbo
6	TION	resources from soil,	words	-Terracing, crop rotation,		у	how	ard
	OF	wildlife and water	correctly	apply manure , mulching	Illustrati		to	illust
	RESO			e.t.c	on	-fluency	conse	ratio
	URCE		-role plays	2)Wild life Educate people			rve	n
	S			- strict laws	Demon	-asking	resour	
	FROM			3)conservation of water	stration	question	ce	The
	SOIL,			-stop pollution		S	from	envi
	WILD			-correct fishing equipment	Discuss		soil,	ron
	LIFE			-start fish farming	ion	-concern	wild	men
	AND						life,	t
	WATE				Explan	-taking a	conse	
	R				ation	decision	rvatio	
							n of	
						-logical	water	
					1	reasonin		

