

## SCIENCE SCHEME OF WORK FOR TERM ONE PRIMARY THREE LO: The child appreciates environmental changes and applies the acquired knowledge and skills to manage the environment.

W	P D	THEM E	S.THEM E	CONTENT	COMPETENCES	MTHD/ TECH	IND. OF L.	ACTIVIT Y	T/L AIDS	REF	R E
							SKILLS & VALUES				F
1	1	COMP ONEN TS OF THE ENVIR ONME NT	OUR ENVIRO NMENT	Definition man and his surroundings Components of the environment. animals, plants, water land and air Groups of things in the environment Living things - Non living things.	The learner; - defines the term environment - lists down any four components of the environment mentions the two groups of things in the environment.	Field work Guided discussi on think pair and share	effective communi cation self awarene ss responsi bility	Defining Listing Naming	The school environ ment	Comprehe nsive primary science book 3 page 1	
	2		Living things	Definition of living things. Examples of living things Characteristics of living things *move *respire *excrete * reproduce e.t.c	The learner; - defines living things - gives atleast six examples of living things states atleast two x-tics of living things.	Explan ation Discuss ion	responsi bility critical thinking patience	Listing Identifyin g	Chalkb oard illustrati on	Introductio n to Biology page 9	
	3		Classific ation of living things	Living things are classified into 5 groups namely: - Animals - Fungi - Plants - Monera	The learner; - mentions the 5 groups of living things.	Explan ation Discove ry	responsi bility critical thinking	Identifyin g Naming	A mushro om	Introductio n to Biology page 6	

		- Protoctista	- gives atleast 3				Differen		
		Examples of plants,	examples of plants,	Discuss			t plants		
		animals and fungi	animals and fungi.	ion					
		Diagram of a mushroom							
4	Animal	Definition of habitat	The learner;	Guided	responsi	Defining		Understan	
	habitats	A habitat is a natural	- defines a habitat	discussi	bility	Listing		ding	
		home for living things.	- tells what animal	on	critical	Naming		integrated	
		Animals habitats	habitat are	Brain	thinking	Drawing		science	
		Are places where animals	- gives atleast 4	stormin				book 3	
		live e.g. water, bush,	examples of animal	g				page 1	
		homes, swamps e.t.c.	habitats.	think					
		Animals in the school		pair &					
		compound.		share					
5		Animals found in the	The learner;		creative			Understan	
		gardens.	- defines pests and		thinking			ding Inter.	
		(animal pests) e.g. birds,	domestic animals		problem			Science	
		squirrels etc.	- gives atleast four		solving			book 3	
		Animals found in homes	animal pest and					page 2-3	
		(domestic animals) e.g.	domestic animals.						
		cats, dogs, cows, pigs,							
		hens, turkey, e.t.c							
6		Animals in the forest.	The learner;	Explan	creative	Listing	Models	Understan	
		Lions, snakes, elephants,	- names four	ation	thinking	Identifyin	of	ding Inter.	
		tigers, leopards e.t.c	animals that live in		problem	g	animals	Science	
		Animals in swamps and	forests and water	Discuss	solving			book 3	
		water (Aquatic)	bodies.	ion			Chalkb	page 3-4	
		- crocodiles					oard		
		- crested crane					illustrati		
		- snakes e.t.c					on		
7	Parts of	Naming the different	The learner;	Explan	cooperati	Naming	A chart	Comprehe	
	the fish	parts of a fish	- draws and name	ation	on	Drawing	showin	nsive	
			the parts of a fish.			Identifyin	g fish	science	
		513311		Discuss		g	parts.	book 3	
		多江(1)		ion				page 5	
		1973 18 513					A real		
							fish		
		<b>W</b>							
		a – mouth b – gill cover							
		c – pelvic fin					1		

2	1	l l	Jses of	Mouth – used for feeding	The learner;	Explan	decision	Give the	A chart	Comprehe
-	•	_	each	Gill cover – protects the	- names any five	ation	making	function	showin	nsive
		р	oart of a	gills .	parts of a fish and			of each	g fish	science
		fi	ish	Gills – used for breathing	give their functions.	Observ		part of a	parts.	book 3
				Nostril – is used for		ation		fish		page 5
				smelling					Real	
				Scales – for protection					fish	
	2		Jses	Uses of fish	The learner;	Guided		Identifyin	Chalkb	
			and	- source of food	- gives four uses of	discussi		g	oard	
			reserva	- source of income	fish	on		Listing	illustrati	
			ion of ish	<ul><li>source of medicine</li><li>used to make animals</li></ul>	- states any 3 ways				on	
		"	1511	feeds e.t.c.	of preserving fish					
				Preservation of fish						
				- smoking						
				- salting						
				- tinning/canning etc						
	3	-	Plants	- water	The learner;	Field	problem	Identifyin	Natural	Comprehe
			and their	- wetlands	- identifies any	trips	solving	g	environ	nsive
		n	nabitats	<ul><li>school garden</li><li>dry rocks</li></ul>	three plant habitats names any two	Observ	creative thinking	Listing Naming	ment	science book 3
				Examples of plants that	plants that grow in	ation	responsi	Ivailing		page 6-7
				grow on water & wetlands.	water and	think	bility			page o r
				e.g. water lilly	wetlands.	pair &	concern			
				,		share				
	4	_	School	Crops grown in the	The learner;	Discuss	problem	Naming	School	Comprehe
		g	garden	school garden. e.g.	- mentions any 5	ion	solving creative	Listing	garden	nsive
				bananas, maize Importance of a school	crops grown in the school garden.	Brain	thinking	Identifyin	swamp	science book 3
				garden	- gives 4 uses of a	stormin	responsi	g	Swarrip	page 37
				*source of food	school garden	g	bility			F~90 0.
				*source of income	3	3	concern			
				*source of employment						
				*used for study purposes						
				Requirements for setting						
				up a good school garden						

	5		Plants that	EXAMPLES liver worts, lichens,	The learner; - mentions one	Explan ation	problem solving	Identifyin	The environ	Comprehe nsive
			grow on	cactus plants	plant that grows on	allon	creative	g	ment	science
			rocks	Uses of rocks	rocks.	Discuss	thinking	Listing	1110111	book 5, 6,
			and	- contain valuable	- gives any 4 uses	ion	responsi	3		7 page
			deserts.	minerals	of rocks to man		bility			148
				- used in construction	- mention atleast	Brain	concern			
				- used in decoration etc	one crop grown on	stormin				
				Plants that are grown on	each type of soil.	g				
				different soil		D:				
				Clay soil – rice		Discuss				
				Dry sand – cactus Loam soil – bananas,		ion				
				beans, maize						
	6		Uses of	Uses of plants to man	The learner;	Guided	problem	Listing	Real	Comprehe
	ľ		plants to	- source of food	- gives atleast 4	discussi	solving	Identifyin	plants	nsive
			people	- source of medicine	uses of plants to	on	creative	g	e.g.	science
				- source of income	man.		thinking		mango	book 3
				- some plant stems and		Explan	responsi		es	page 8
				wood are used for		ation	bility			
				constructions e.t.c.			concern			
	7		Uses of	Uses of animals to	The learner;	Discuss	problem	Listing	Chalkb	Comprehe
			animals	people	- gives any five	ion	solving	Identifyin	oard	nsive
			to	- source of food	uses of animals to	0	creative	g	illustrati	science
			people	- source of income - some are used for	people.	Questio n &	thinking		on	book page 8
				transport		answer	responsi bility			0
				- some are used for		answei	concern			
				protection			Concern			
				- some are kept as pets						
3	1	OUR	SOIL	Definition of soil	The learner;	Explan	responsi	Defining	Soil	Comprehe
	&	ENVIR	Compon	Formation of soil	- defines soil	ation	bility	Listing		nsive
	2	ONME	ents of	(weathering &	- tells how soil is		creative	Identifyin		science
		NT	soil	decomposition	formed	Discuss	thinking	g		book 3
				Components of soil	- states any four	ion	logical			page 9
				- humus - water	components of soil.	S	thinking			
				- living things e.t.c.						
				air, mineral matter		1	1	<u> </u>	l	

							1		
3	OUR SUB COUN TY	Experim ents about compon ents of	Experiments to show that soil contains air. Apparatus - soil sample - water - beaker/bucket	The learner; - identifies the materials used to show that soil contains air.	Explan ation  Demon stration	responsi bility creative thinking logical	Drawing Observin g	Soil Water Beaker s	Understan ding Inte. Science book 3 page 18
		soil	Bubbles form to show soil contains air.	Some and	Observ ation	thinking			
			Contains air.						
4			Experiments to show soil contains water. Apparatus	The learner; - states the materials used to	Demon stration	responsi bility creative	Observin g	Soil Saucep an	Understan ding Inte. Science
			- sample of soil - stove - saucepan - cover/lid	test for water in the soil.	Observ ation	thinking logical thinking		Stove, a lid	book 3 page 17
5	ENVIR ONME NT IN OUR SUB COUN TY	TYPES OF SOIL & TEXTU RE	Sand soil Clay soil etc Sand soil properties - Has big properties - Water passes through fast - Dries up quickly	The learner; - states two properties of sandy soil gives two uses of sandy soil.	Explan ation Discuss ion	responsi bility creative thinking logical thinking	Observin g Identifyin g	Soil sample s	Comp. guide to science page 129
	1 1		Uses of sand soil - building - ceramics						
6		X-tics of clay soil	Clay soil - Has small and fine particles - Contain very little air - Holds water for long.	The learner; - states any two properties of clay soil identifies any two	Observ ation Illustrati on	responsi bility creative thinking logical	Listing Naming Modeling simple	Soil sample s Product s from	Understan ding inter sci book 3 page 20
			Uses of clay soil pottery	uses of clay soil.		thinking	products	clay soil	
7		X-tics of loam soil	Loam soil - Well drained - Well aerated - Are fertile and contain	The learner; - gives any two properties of clay soil.	Explan ation Discuss	responsi bility creative thinking	Observin g Identifyin	Soil sample s	
			humus		ion		g		

								1	
			Uses of loam soil.	- states the major		logical			
			- agriculture	use of loam soil.		thinking			
4	1	Experim ent for soil propertie s	Experiment to show the properties of soil. (Soil drainage) Apparatus - soil samples - beakers - funnels - funnels - water - filter paper	The learner; - tells whish type of soil holds water for long.	Observ ation Illustrati on	responsi bility creative thinking logical thinking	Listing Naming	Soil sample s, water, filter paper, funnels	Understan ding inter sci book 3 page 20
	2	Soil profile	Definition of soil profile and texture. A cross section of soil profile.  Top soil  Sub soil  Parent rock	The learner; - defines soil profile and texture identifies the layers of a soil profile.	Explan ation Illustrati on Field work	responsi bility creative thinking logical thinking	Drawing Naming Identifyin g	Cut section of soil at road side	Comp. sci book 3 page 11
	3	Uses of soil	- used for planting - used for construction - used for modelling brick making - some soil is used for painting	The learner; - gives any four uses of soil to man.	Guided discussi on brain stormin	responsi bility creative thinking logical thinking	Listing	Chalkb oard illustrati on	Comp. sci book 3 page 13
	4 & 5	Soil erosion	Definition of soil erosion - agents - causes of soil erosion - deforestation - over grazing - over cultivation - bush burning	The learner; - defines soil erosion - states any three causes of soil erosion	Explan ation Questio n & answer	responsi bility creative thinking logical thinking	Defining Listing	Chalkb oard illustrati on	Fountain Pri. Science book 5 page 70
	6	Types of soil erosion	Types of soil erosion Sheet erosion Rill erosion	The learner;	Guided discussi on	responsi bility	Listing	Cross section of soil	Fountain Pri. Sch

				Gulley erosion River bank erosion e.t.c. Rain drop erosion	- identifies the types of soil erosion.	Discove ry Demon stration Field walk	critical thinking creativity		e.g. gullies	book 5 page 70
	7		Effects of soil erosion	Loss of soil fertility Causes siltation Reduced/shortage of food Destruction of soil structure, destroy crops.	The learner; - states any two effects of soil erosion.	Explan ation Discove	responsi bility critical thinking creativity	Listing	Chalkb oard illustrati on	Biology for East Africa page 223
5	1		Methods of controlli ng soil erosion	Soil erosion is controlled by: - terracing - mulching - contour ploughing - strip cropping - inter cropping e.t.c.	The learner; - gives ways of controlling soil erosion	Explan ation Illustrati on think pair & share	responsi bility critical thinking creativity	Listing	Chalkb oard illustrati on	Fountain Pri. School book 5 page 76
	2	Manag ing chang es in the enviro nment	Types of changes in the environ ment	Natural and man-made changes in the environment Natural changes are changes that occur on their own. e.g. earthquakes, volcanic eruptions, floods etc Manmade changes and examples.	The learner; - defines natural and manmade changes - gives at least 4 examples of natural and manmade changes.	Discove ry Explan ation	responsi bility critical thinking creativity	Identifyin g Listing Naming	The environ ment	Comp. science book 3 page 57
	3 & 4		Good and bad changes in the environ ment.	Good changes - growth - afforestation - farming - building wells Bad changes - deforestation - swamp drainage	The learner; - identifies any two good and bad changes in the environment.	Brain stormin g Discove ry	responsi bility critical thinking creativity	Naming Listing	E learnin g The environ	Comp. science book 3 page 57

				Effects of bad changes in the environment Uses of good changes in the environment Ways of managing changes in the environment							
	5 & 6	Manag ing chang es in the enviro nment	Weather	Definition The state of the atmosphere at a given time in a place. Types of weather windy, sunny, rainy, and cloudy Elements of weather rainfall, cloud cover, temperature	The learner; - mentions the types of weather - mentions the elements of weather	Think pair and share Explan ation	Logical thinking Critical thinking	Defining Observin g Mentioni ng	A chart showin g types of weathe r Local environ ment	Curr-guide book 3 Mk Int. SST 3 & 4 Int. Science bk 3	
	7		Weather instrume nts and uses	Examples of weather instruments e.g. wind vane, rain gauge etc. uses of each instrument	l)identifies the different weather instruments. Is)states the use of each weather instrument.	Think pair and share Explan ation	Logical thinking Critical thinking	Defining Observin g Mentioni ng	A chart showin g types of weathe r Local environ ment E learnin	Curr-guide book 3 Mk Int. SST 3 & 4 Int. Science bk 3	
6	1		The sun	The sun It is a natural source of heat and light energy. Uses of the sun - provides heat and light energy - provides sunshine to dry harvested crops - source of vitamin D	The learner, i)describe the sun ii)gives uses of the sun	Guided discussi on Brain stormin g	Logical thinking appreciat ion	discussin g	The environ ment	MK INT SST bk 4	

2			Effects of the sun	The learner;	Explan	Logical	Mentioni	Local	
			- leads to drought	- states the effects	ation	thinking	ng	environ	
			- too much sunshine dry	of too much				ment	
			harvested crops	sunshine in the	Discuss				
			- too much sunshine dry	environment	ion				
			water bodies etc						
L.O	: The chi	ld apprec	iates and conserves the en	vironment.					
3	ENVIR	AIR	Definition of air	The learner:	Explan	patience	Identifyin	Text	
	ONME		Components of air	- defines air	ation	social	g	books	
	NT &		- Nitrogen 78%	- mentions any four		awarene	Listing		
	WEAT		- Oxygen 21%	components of air.	Discove	SS			
	HER		- Carbon dioxide 0.03%		ry	decision			
	IN		- Rare gases 0.97% or 1&		'	making			
4	OUR	Uses	Nitrogen – used by plants	The learner;	Explan	patience	Identifyin	Fire	Comp.
-	SUB	air	to make plant proteins.	- gives least one	ation	social	g	extingui	science
	COUN	-	Oxygen – used in	use of each gas in		awarene	Listing	shers	book 3
	TY		respiration, burning and	air.	Discove	SS	Naming	011010	page 14
			rusting.	an.	ry	decision	Observin	Bulbs	pago
5			Carbon dioxide used in		think	making	g	Daibo	
Ŭ			fire extinguishers,		pair &	making	9		
			photosynthesis,		share				
			preservation of soft drinks.		Silaic				
			Rare gases – used in						
			bulbs						
			Experiment to show that						
6		Properti	oxygen supports burning.  Air has weight	The learner;	Evnori	nationes	Observin	Α	Comp
О		•		′	Experi	patience		halloon	Comp.
		es of air	Air occupies space	- gives any two	mentati		g		science book 3
			Air exerts pressure	properties of air	on			string	
			Air can be compressed						page 15
&			Experiment to show Air						
α			has weight				Listing		
			lias weight				Listing		

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	7	Experi ments on propert es of air.	balloon with air		Explan ation	social awarene ss	Drawing	A beam balance Water Contain er	
			Experiment to show Air occupies space  glass basin		Illustrati on	decision making		glass	
7	1 &		Experiment to show Air exerts pressure Apparatus - glasses - water	The learner; - carries out the experiment.	Experi mentati on	patience social awarene ss	Observin g Drawing	Hard cardbo ard, water,	Comp. science book 3 page 18
	2		- hard cardboard  card board		Explan ation gallery walk	decision making		glass	page 10
			Experiment to show that air can be compressed.  water heat	The learner; - carries out the experiment.	Experi mentati on Explan ation	patience social awarene ss decision making	Observin g Drawing	Ballon A tin Water	Comp. science book 3 page 18
			Air pressure outside the tin compresses air inside the tin Air can be compressed.						

						1	1	1		, , , , , , , , , , , , , , , , , , , ,
	3			Air supports burning		Discuss		Identifyin	Chalkb	
				(oxygen)		ion		g	oard	
				An experiment to show that				Listing	illustrati	
				oxygen supports burning.					on	
	4		The	The planet (jupter, mars)	The learner;	Discuss	creative	Identifyin	Chalkb	Understan
			planet	Phases of the moon	identifies	ion	thinking	g	oard	ding inte.
			•		examples of			Listing	illustrati	Science
				Types of objects	planets		self		on	book 3
				Opaque, transparent,	- describes phases		awarene			page 24
				transluscent	of the moon.		SS			
				I a no coo o n						
	5		Shado	Definition	The learner;	Demon	creative	Observin	The	Comp.
		,	W	Formation of shadows	- tells how shadows	stration	thinking	g	sun	science
	&			- shadows are formed	are formed.					book 3
				when light is blocked by an	- tells when	Explan			Torch	page 23-
	6			opaque object.	shadows are long	ation	self		candle	24
				- they are formed opposite	or short.		awarene			
				the source of the light.			ss			
				(Diagrams)						
				Parts of a shadow						
				/echrope						
				penumbra						
				umbra						
				Uses of shadows						
	7		Clouds	Types of clouds	The learner;	Explan	creative	Observin	Clouds	Comp.
				- nimbus clouds	- lists down the	ation	thinking	g	in the	science
				- cirrus clouds	different types of		self	Listing	sky.	book 3
				- stratus clouds	clouds.	Observ	awarene	Identifyin		page 25-
				- cumulus clouds (near the	- states any two	ation	SS	g	E	26
				earth)	uses of clouds to			3	learnin	
					man.				g	
8	1			Uses of clouds	The learner;	Brain	critical	discussin		
				- help in rain formation	- tells the uses of	stormin	thinking	g		
				- protect us from direct sun	clouds.	g	problem			
				rays.		3	solving			
				- keep the earth warm.			mobility			
				- keep the earth warm.			тновниу			

			- cause change in temperature.  Dangers of clouds - Hailstorms, lightening . Storms cause planes to crash.		Think,p air,and share					
2 & 3	Chang es in the enviro nment	Rainfall	Experiment to show the rain cycle. Apparatus - stove - water - bottle - matchbox	The learner; - identifies the two processes involved in rain formation	Explan ation  Illustrati on  Experim entation	critical thinking problem solving mobility	Observin g	Store, water, bottle, matchb ox	Comp. science book 3 page 26	
4		Uses of rainfall	- softens soil for cultivation - increases on the wate rlevel of water bodies - provides water for domestic use.	The learner; - gives the uses of rain to man.	Guided discussi on	critical thinking problem solving mobility	Listing Identifyin g	Chalkb oard illustrati on	Comp. science book 3 page 27	
5		Danger s of rainfall	Dangers of rainfall - causes crops to rot - causes floods - leads to easy spread of water borne diseases - causes soil erosion	The learner; - states any four dangers of too much rainfall.	Guided discussi on	critical thinking problem solving mobility	Listing Identifyin g	Chalkb oard illustrati on	Understan ding int. science book 3 page 33	
6		Source s of water	Sources of water - Natural sources - Artificial sources Natural sources - rain - streams - lakes - seas - wells - oceans Artificial sources - protected wells - bore holes	The learner; - tells the main naturals source of water - names any two naturals and artificial source of water identifies ways of harvesting water	Inquiry Discuss ion Explan ation	critical thinking problem solving mobility	Identifyin g Naming Listing Drawing	Nearby water sources	Understan ding int. science book 3 page 33	
7			Ways of harvesting water - using tanks - using water gutters etc	N .		critical thinking				

FI	0.7	The child	demonst	Materials used to harvest water - basins, tanks & pots.etc Caring for water sources - fencing water sources - repairing water sources - avoid directing sewages in water sources. Uses of water to; i) man/animals rates knowledge and skills of	of preventing commo	on disease	problem solving mobility	trolling the	m for a h	ealth life	
9	1	HEALT H IN OUR SUB COUN TY	Sanitatio n		The learner; - defines sanitation - identify any four elements of sanitation	Explan ation Discove ry	critical thinking problem solving mobility	Defining Mentioni ng Identifyin g Listing	Dustbin s, soap, clean, water	Comp science book 3 page 28	
	2			Requirements of a clean home and their importance - a latrine/toilet - a rubbish pit - a food store - a plate stand - bathroom	The learner; - mentions any four requirements of a clean home and their importance.	Guided discussi on Discove ry	critical thinking problem solving mobility	Listing Identifyin g	School environ ment	Int. science book 3 page 40	
	3		Proper sanitatio n	Definition of proper sanitation Importnace of proper sanitation Ways of proper sanitation - keepign the toilets clean - proper disposal of rubbish	The learner; - defines proper sanitation - gives at least one use of proper sanitation - identifies ways of having proper sanitation	Explan ation	critical thinking problem solving mobility	Defining Listing	Text books		

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4		ersonal ygiene	Definition of personal hygiene Ways of promoting personal hygiene - bathing regularly - brushing teeth after every meal.  Things used in promoting personal hygiene.	The learner; - defines personal hygiene - gives two ways of promoting personal hygiene.	Questio n & answer Explan ation	responsi bility creativity patience care self awarene ss	Defining Identifyin g Listing	soap, water, tooth paste, tooth brush, sponge	Suppleme ntary sci. book 5 page 119  Comp. science bk 3 pg 93	
5	hy ar cc	ood ygiene nd ontami ation	Definition of food hygiene and contamination. Ways food get contaminated. e.g * serving with dirty hands and containers. * serving in dirty containers. * leaving it uncovered.	The learner; - defines food hygiene and contamination - gives two ways food is contaminated.	Explan ation Guided discussi on	responsi bility creativity patience care self awarene ss	Defining Listing	Chalkb oard illustrati on	Comp. science book 3 page 97	
6	pr tic	ood reserva on and torage	Define food preservation Ways of preserving food.  * sun drying  * smoking etc Reasons why food is preserved. Storage of food - using local granaries - using silos - a structure of a local granary	The learner; - defines food preservation - identifies reasons for preserving food.	Explan ation Guided discussi on	responsi bility creativity patience care self awarene ss	Identifyin g Listing	Preserv ed food	Comp. science book 3 page 97	