## Tekart learning P.5 Science Scheme of Work

W	PD	THEME	TOPIC	SUB TOPIC	Subject competence	Language competence	CONTENT	Method	Activity	t/l aids	Life Skills& Values	REF
1			Keeping poultry and bees	Poultry keeping	The learner  - Describes term poultry keeping  - Naming the examples of poultry  - Drawing poultry birds  - Giving the importance of poultry	The learner; - Constructs sentences correctly about poultry  - Reading, writing and pronouncing words correctly	<ul> <li>Terminologies used in poultry.</li> <li>Poultry</li> <li>Poultry keeping</li> <li>Hens</li> <li>Cocks</li> <li>Chicks</li> <li>Pullets etc</li> <li>Examples of poultry</li> <li>Importance</li> </ul>	<ul><li>Question and answer</li><li>Discussion</li><li>Guided</li><li>discovery</li><li>Field trip</li></ul>	<ul> <li>Naming examples of poultry</li> <li>Describing different examples of poultry</li> <li>Answering questions</li> </ul>	-hens -Cocks -Eggs	-Effective communication -Critical thinking -Problem solving	<ul> <li>Primary five curr.</li> <li>pg 22-24</li> <li>Baroque integrated science pg 1-2</li> </ul>
	2				The learner;     draws and     describes     external parts of     a domestic fowl	-	<ul> <li>External parts of a domestic fowl</li> <li>Functions of each part</li> <li>Physical differences between a cock and hen</li> </ul>		- Drawing and naming the external parts of a hen	- A domestic fowl	- Care -Responsibility	- Agriculture for secondary schools
	3				<ul><li>Identifying different types of feathers.</li><li>Giving the importance of feather</li></ul>	-	<ul> <li>Feathers</li> <li>Importance of feathers to people and birds</li> <li>Types of feathers</li> <li>Diagrams of different feathers</li> </ul>		-	- Feathers	<ul> <li>Drawing different types of feathers</li> <li>Stating the importance of feathers</li> </ul>	
	4				- Identifying the examples of chicken	-	<ul> <li>Types of chicken</li> <li>Layers</li> <li>Broilers</li> <li>Dual purpose</li> <li>Examples of each type of chicken</li> </ul>	-	-	-	<ul> <li>Naming         different types         of chicken</li> <li>Giving         examples of         each type of         chicken</li> </ul>	-

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	5	l k	Keeping	Poultry	The learner:	The learner	- Breeds of	- Guided	- Answering	- Poultry birds	- Decision	- Beginning
		p	. •	keeping	<ul><li>Describes the breeds of chicken</li><li>Writes examples</li></ul>	<ul> <li>Pronounces, reads, writes and spells the</li> </ul>	chicken - Local breeds - Hybrids	discussion - Filed trip	questions - Naming the		making - Problem	agriculture A course bk for pupils pg 65-69
					of exotic breed  Gives the characteristics of each breed  Writes the advantages of each type of breed	words correctly	<ul> <li>Examples of exotic</li> <li>Characteristics of local and exotic breed</li> <li>Advantages and disadvantages of exotic breed</li> </ul>		exotic breed		solving	
	6				<ul> <li>Describes the systems of keeping poultry</li> <li>Gives</li> </ul>	- Constructs correct sentences about	<ul><li>Systems of keeping poultry.</li><li>Free range system</li></ul>	- Field trip	<ul> <li>Explaining how to manage systems of</li> </ul>	-	Creative thinking Appreciation	- Baroque integrated science pg 4-10
					advantages and disadvantages of each system	systems of poultry - Spells the	<ul><li>Advantages and disadvantages</li><li>Deep litter</li></ul>		keeping poultry - Describing		Love	- Livestock technical hand bk 76-78
						names of each system correctly	system - Advantages and disadvantages of deep litter system		the systems of keeping poultry		Care	
2	1				<ul> <li>Describes the system and keeping poultry</li> </ul>	<ul> <li>Construct correct sentences</li> </ul>	<ul><li>Battery cage</li><li>system</li><li>Advantages and</li></ul>	- Field - trip	-	<ul> <li>Systems of keeping poultry</li> </ul>	Effective communication	- Baroque integrated science pg 4-10
						about poultry	disadvantages - Fold pen system - Advantages and disadvantages				Creative thinking	. •
		human p	. •	Poultry keeping	The learner: - Outlines the good feeding practices	-	<ul> <li>management practices in poultry</li> </ul>	<ul><li>Observation</li><li>Discussion</li></ul>	<ul> <li>Mixing poultry feeds</li> </ul>	- Poultry feeds	- Problem solving	- Primary 5 curr. pg 23
		occupation	,,,,,		in poultry - Identifies different feeds		<ul><li>Feeding of chicken</li><li>Reasons why</li></ul>	<ul> <li>Question and answer</li> </ul>	<ul> <li>Identifying the sources of each class of</li> </ul>		- Creative thinking	
							we feed poultry Types of mash Classes of food needed in the bird's diet		food		- Responsibility	

3		- Lists the general	- Draws and	- Good feeding	- Demonstration		- The	- Critical thinking	
		good feeding	names	practices in		naming of	digestive		integrated
		practices in	different parts	poultry		alimentary	system		science pg 12-13
		poultry	of a fowl in	- The digestive		canal			Danianian
		identifies the	correct English	system of a fowl - Function of					- Beginning
		- identifies the							Agriculture bk 3
		functions of each		each part					pg 70
4		part	0 11 1	1 1 6	F 1 (	F 1	D 11 1: 1		Б : :
4		<ul><li>The learner:</li><li>Describes the term</li></ul>	- Spells and pronounces	<ul><li>Incubation</li><li>What it is</li></ul>	- Explanation	<ul> <li>Explaining the conditions</li> </ul>	<ul> <li>Poultry birds</li> </ul>	-	<ul> <li>Beginning</li> <li>Agriculture bk 3 pg</li> </ul>
		incubation	words correctly	- Conditions	- Question and	necessary for			59
		- States the	words correctly	necessary for	answer	incubation			00
		conditions		eggs to hatch	anono	moubation			
		necessary for		<ul> <li>Incubation period</li> </ul>					
		incubation		of different birds					
		<ul> <li>Names the two</li> </ul>		<ul> <li>Types of</li> </ul>					
		types of incubation		incubation					
				■ Natural &					
				Artificial					
				<ul> <li>Advantages &amp; disadvantages</li> </ul>					
5		- Defines artificial	_	- Artificial	- Observation	- Drawing the	- A chart	- Effective	_
		incubation		incubation	Oboorvation	incubator	showing an	communication	
		modbattom		- Advantages and		ii loubatoi	incubator	Communication	
				disadvantages					
6			The learner;	- Brooding	- Discussion	<ul> <li>Defining the</li> </ul>	- The structure	- Effective	<ul> <li>Primary five curr</li> </ul>
		- describes the term	- Constructs	- What it is	- Group work	term artificial	of a brooder	communication	pg 23
		breeding	correct	<ul> <li>Types of brooding</li> </ul>		brooding			
			sentences about brooding	<ul><li>Natural</li></ul>	answer	Namina tha		Creative thinking	
		- Identifies the types	- Spells,	brooding		<ul> <li>Naming the type of</li> </ul>		- Creative thinking	
		of brooding	writes/reads and	■ Artificial		brooding			
		- relates brooding in	pronounces	brooding		Stooding			
		his/her life situation	correct	- Natural it is					
			sentences and	<ul> <li>Advantages and</li> </ul>					
			words	disadvantages					
		-		<ul> <li>Artificial brooding</li> </ul>	-	-	-	-	-
				- What it is					
				<ul> <li>Advantages and</li> </ul>					
				disadvantages					
				- Requirements for					
				a brooding					
				- Types of artificial					
				brooding					
				- A diagram of a					
				brooder					

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3	1	- Defines the term fertilization - Name the parts of the oviduct and their function	Draws and names the parts of an egg and oviduct corrects     Spells words well	<ul> <li>Fertilization in poultry.</li> <li>What it is</li> <li>The oviduct of a hen</li> <li>Internal structure of an egg</li> <li>Function of each part of the egg</li> </ul>		- Drawing and labeling the oviduct and the structure of an egg	<ul><li>The oviduct of hen</li><li>An egg</li></ul>	- Responsibility - Care	- Agriculture for secondary schools pg 104
	2	-		<ul> <li>Poultry vices</li> <li>What it is</li> <li>Causes of poultry</li> <li>Examples of poultry vices</li> <li>Egg eating</li> <li>Signs of egg eating</li> <li>How to control egg</li> <li>Egg eating</li> </ul>	-	Defining the term poultry vice      Identifying examples of poultry vices	- The broken egg	-	- Livestock technical hand book pg 91 - Baroque integrated science pg 12-13
	3	The learner; - defines the term cannibalism - Identifies the signs, causes and prevention of feather, skin and toe pecking - Relates poultry vices in his/her life situation	The learner; - constructs correct sentences about cannibalism, toe and feather pecking - Spells and writes the words correctly	<ul> <li>Cannibalism (definition)</li> <li>Signs and causes of cannibalism</li> <li>Prevention of cannibalism</li> <li>Feather, skin and toe pecking</li> <li>Causes</li> <li>signs</li> <li>Ways of preventing feather, skin and toe pecking</li> </ul>	<ul> <li>Guided discovery</li> <li>Observation</li> <li>Field trip</li> <li>Question and answer</li> </ul>	<ul> <li>Identifying different poultry vices and their signs</li> <li>Naming causes of poultry of poultry vices</li> </ul>		<ul> <li>Self awareness</li> <li>Effective communication</li> <li>Empathy</li> </ul>	- Intergrated science pg 13-14
	4	bultry seases - Identifies common conditions that may lead to poultry diseases - Outlines the control of poultry diseases	- Pronounces, reads and writes words correctly - Constructs correct sentences	- Conditions which may lead to poultry diseases Examples of common poultry diseases and their causative agents - Protozoa	- do -	<ul><li>Outlining poultry diseases</li><li>Identifying poultry diseases</li></ul>	-	- Logical and critical thinking	- Fountain primary science pg 20-21

_		 	 							
					diseases a) Coccidiosis - Signs and symptoms - Ways of controlling b) Black head - signs and symptoms - prevention and control					
	5		<ul> <li>Lists viral poultry diseases</li> <li>Gives signs and symptoms of viral diseases</li> </ul>	<ul> <li>Reads, pronounces and writes the words correctly</li> <li>Constructs correct sentences</li> </ul>	- Viral diseases a) New castle disease b) Gumboro disease c) Fowl fox disease - Signs and symptoms - Prevention and control	- do -	- Identifying examples of poultry diseases and their signs	-	- Empathy - Effective communication	- do -
	6		- Outlines examples of bacterial diseases - Identifies the signs and symptoms of poultry diseases - Lists ways of controlling and preventing bacterial diseases	- Reads, pronounces and writes the words correctly	<ul><li>Bacterial diseases</li><li>a) Pneumonia</li></ul>	- Questions and answer - Discussion	- Naming examples of bacterial diseases - Identifying signs of bacterial diseases	-	- Effective communication - Critical thinking	- Fountain primary science bkspg 20-21

4	2	Poultry Parasites	- Defines parasites - Lists examples of internal and external parasites - Gives ways of controlling parasites in poultry	The learner; Reads, pronounces and writes the words correctly	- What are parasites - Types of parasites a) Ecto parasites - Examples and their effects - Control of ecto parasites b) Endo parasites - Examples - Examples - Effects of endo parasites - Control of endo parasites - General control of poultry parasites - Practices in proper management of poultry	<ul> <li>Discussion</li> <li>Question and answer</li> <li>Explanation</li> </ul>	- Naming types of poultry parasites - Identifying examples of ectoendo parasites	- Tick mites	- Critical thinking - Effective communication	- Fountain primary science bkspg22
	3		The learner;	- Constructs	Farm records	- Discussion	- Defining the	- The farm	-	- Fountain
			<ul> <li>describes the term poultry farm records</li> <li>Outlines the importance of records</li> </ul>	sentences correctly about farm records - Pronounces words correctly.	<ul> <li>What it is</li> <li>Examples of farm records (types)</li> <li>importance of farm records</li> <li>factors to consider when starting a farm</li> </ul>	<ul> <li>Demonstration</li> <li>Guided</li> <li>discovery</li> </ul>	term farm - Records - Outlining some examples of farm records	record		Integrated primary science bk5 pg 19
	4	Keeping of bees	The learner; - gives different types of bees - identifies the function of each type of bee in a hive	- Constructs correct sentences about bees - Pronounces words correctly	Bee keeping - Apiculture - Definition - Colonies - Social insects - Solitary insects - Types of bees (casts) - Queen structure - Importance	<ul><li> Question and answer</li><li> Discussion</li><li> Demonstration</li></ul>	<ul> <li>Drawing of different types of bees</li> <li>defining the term swarming</li> </ul>	- The structure of Queen, drone and worker bee	Effective communication     Creative thinking	- Livestock technical hand book pg 110-111

	1_ 1	Г	1						1			
	5					_	- Drone bee –		-	- The structure	<ul> <li>Logical thinking</li> </ul>	
							structure			of Queen,	- Care	integrated
							<ul> <li>Importance</li> </ul>			drone and	- Cale	science pg 17-18
							<ul> <li>Work bee</li> </ul>			work bee	<ul> <li>Concern</li> </ul>	
							<ul> <li>Importance of</li> </ul>					
							work bee in the					
							hive					
							- Diagram of					
							honey comb					
							Uses of propolis					
							in a hive					
	6			•	- Describes the	<ul> <li>Constructs</li> </ul>	SWARMING	-	-	-	-	-
					term swarming	correct	<ul> <li>What it is</li> </ul>					
					<ul> <li>Outlines some</li> </ul>	sentences	<ul> <li>Reasons why</li> </ul>					
					reasons why	about bees	bees swarm					
					bees swarm	swarming	<ul> <li>Methods of</li> </ul>					
						- Spells words	preventing					
						correctly	swarming					
	1				Names names of a			Discussion	Drawing and		- Effective	Danasura
5				•	- Names parts of a	- Constructs	LIFE HISTORY	- Discussion	- Drawing and	-		- Baroque
_					bee and their	correct	OF A BEE	- Question and	naming		communication	integrated
					function.	sentences	- Diagram showing		lifecycle of a			science pg 19-20
				•	<ul> <li>Identifies the</li> </ul>	about the life	the lifecycle if a	answer	mosquito		<ul> <li>Critical thinking</li> </ul>	
					importance of	cycle of a	bee.	- Demonstration				
					bee to people	mosquito	<ul> <li>External parts of</li> </ul>				<ul> <li>Appreciation</li> </ul>	
					and plants	·	a honey bee	=				
					'		- Functions of each					
							part					
	2				- Outlines the	- Pronounces,	- Importance of	- Guided	- Answering		- Responsibility	- Primary five
					types of a bee	spells and	bees to people		questions		- ixcoponoionity	curriculum pg 23
					hive	writes words	and animals	discovery				cumculum pg 25
								·	correctly		0	
				•	- Draws the	correctly	- Products got from				- Care	
					diagram of a bee		bees					
					hive		<ul> <li>Uses of honey</li> </ul>					
							<ul> <li>Products got from</li> </ul>					
L							bee works					
	3				- Outlines the	- Reads words	Bee hive	=	- Drawing a	- The structure		- Livestock
					types of bee	correctly	- Types of bee		traditional bee	of a		technical and
					hives	- Spells words	hives		hive	traditional		handstockpg
					- Draws a	correctly	✓ Traditional			bee hive		110-111
					traditional bee	Correctly	bee hive			DEC 1111/C		110-111
					hive		✓ Modern bee					
							hive					
		ı					<ul> <li>Traditional bee</li> </ul>		I			
							hive					

				✓ Examples of a traditional bee hive ✓ Diagram of a traditional bee hive - Advantages and disadvantages of a traditional bee hive					
4		- Draws a modern bee hive - Gives the advantages & disadvantages of a modern bee hive	- Pronounces, spells and writes words correctly	Modern bee hive Definition The structure of a modern bee hive Advantages and disadvantages of a modern bee hive Examples		- Drawing a modern bee hive	- The structure of a modern bee hive	-	-
5		Identifies     differences     between     traditional and     modern bee     hives.      Names materials     used by a bee     keeper when     handling bees	<ul> <li>Constructs         correct         sentences         about bees.</li> <li>Spells         different words</li> </ul>	<ul> <li>Differences between traditional and modern bee hive.</li> </ul>	<ul><li>Guided discovery</li><li>Demonstration</li><li>Group work</li></ul>	- Drawing and naming the parts of a person handling bees	- Equipments used in handling bees	- Effective communication - Creative thinking - Critical thinking - Problem solving	- Fountain Integrated primary science pg 23-31
6		- Outlines the methods of extracting honey - Gives the products of bees - Gives the	<ul><li>Constructs sentences well</li><li>Reads words properly</li></ul>	<ul> <li>Honey extraction</li> <li>Methods of extracting honey</li> <li>✓ pressing method</li> <li>✓ floating</li> </ul>	- Guided discovery	- Outlines various methods of extracting honey - Give two	-		- Baroque integrated science pg 21-25

	1	1		ī								1
					importance of		method		products of			
					bees		✓ centrifigue		bees			
							<ul> <li>Products of</li> </ul>					
							bees					
							<ul> <li>Importance of</li> </ul>					
							bees					
							<ul> <li>Feeding of bees</li> </ul>					
	1				- Outlines the -	Pronounces	Sitting and stocking		- What are the	_	_	
1/	-				factors to	words	a hive		factors to			
					consider when	correctly	- Factors to		consider			
					setting a hive	Correctly	consider when		when setting			
					- Gives methods of -	Spells words	setting a hive		a hive			
									a liive			
					stocking a hive	well	- Stocking a hive					
							- Ways of					
							stockings a hive					
	<u> </u>						(methods)					
	2				<ul> <li>Gives the ways of</li> </ul>	Constructs	- Enemies of bees	-	- Give any	-	-	-
					preventing	sentences wel	•		three ways of			
					enemies from -	Pronounces	preventing		preventing			
					attacking bees	words	enemies from		enemies from			
					<ul> <li>Gives the</li> </ul>	correctly	attacking bees		attacking			
					occasions when		<ul> <li>Occasion when a</li> </ul>		bees			
					a bee keeper		bee keeper					
					handles bees		handles bees.					
	3	Matter and	Measurement	Measuring	- States the different -	Constructs	<ul> <li>Measuring, what it</li> </ul>	- Observation	- Comparing	- Bricks	- Self awareness	- Long man primary
		Energy			measurements of	correct	is.	Discussion	different objects	- Boxes	- Effective	science pg 91-100
					objects	sentences	- Length	- Discussion	by mass,	- Books	communication	. •
					<ul> <li>Explains the need</li> </ul>	about	<ul> <li>What it is</li> </ul>	- Guided	volume and		<ul> <li>Creative thinking</li> </ul>	
					for standard	measurement	<ul> <li>Units for measuring</li> </ul>	discovery	weight			
					measure of	Spells,	length	•				
					massive weight and	pronounces and		<ul> <li>Filed trip</li> </ul>				
					volume	writes words	measure length					
						like length,	- Area					
						mass, etc	- What it is					
						correctly	- Finding area by					
							counting square units					
							- Finding area using					
							the formular					
	4						- Mass and weight	<b>-</b>	- Defining mass	_	- Logical thinking	_
	Ι'						- What they are:-		& weight		Logical trillining	
				1			- Basic units of each		a weignt		l	
							i- Dasic units of each i				Annregiation	l
							of them				- Appreciation	
											- Appreciation	
							of them				- Appreciation	

8	6	Behaviour of	- describes the	- Constructs	<ul> <li>Volume and capacity</li> <li>What they are</li> <li>Finding volume of objects</li> <li>Types of objects</li> <li>Finding volume of regular objects</li> <li>examples of regular objects</li> <li>What they are</li> <li>Finding volume of irregular objects</li> <li>examples of irregular objects</li> </ul>	- Demonstration	- Collecting	- Conc leaves	- Effective	-
		objects in water	behaviour of objects in water - Identifies floating and sinking objects - Relates floating and sinking objects in his or	different sentences correctly - Spells words correctly	objects in water floating and sinking objects Examples of objects (sinking and floating objects) Buoyancy force	- Observation	leaves in water	water	communication - Creative thinking - Critical thinking	
			her life situation		Reasons why some objects sink and float					
	2			_	Density - What it is - Its standard unite - Instrument for measuring density - Finding density of objects - Finding density, mass and volume in relation		-	- Instruments for measuring density		

3	Human Health Immunity and Immunity Immunisation	Describes the meaning of immunity     Identifies the types of immunity     Explains the importance of immunity	- Constructs correct sentences about immunity - Spells, writes and reads words used	Immunity - What it is - Types of immunity - Natural immunity - Artificial immunity - How to acquire natural and artificial immunity - Importance of	-	<ul> <li>defining the terms immunity and immunisation</li> <li>Identifying different types of immunity</li> </ul>	-	- Effective communication - Critical thinking	- Primary five currpg 38-39
4	Immunisatio		- Constructs	immunity - Immunisation Childhood immunisable diseases Tuberculosis	- Discussion	- Outlining the	-	- Self awareness	-
		causes of tuberculosis and its signs Outlines different ways of preventing tuberculosis	correct sentences about immunisable diseases - Spells, writes and reads common words correctly	<ul> <li>causes, signs and symptoms</li> <li>prevention and control polio (poliomyelitis)</li> <li>causes, signs and symptoms</li> <li>prevention and control</li> </ul>	<ul><li>Guided discovery</li><li>Question and answer</li></ul>	causes of signs of immunisable diseases		- Effective communication - Self esteem - care - empathy - responsibility	
5		-	Whooping cough  Cause, spread Signs & symptoms Prevention & control Diphtheria cause, spread Signs & symptoms prevention and control Hepatis Signs, cause, prevention Effects of immunisable diseases to children		_	_	-		

	6		l		Names other		Other immunicable					
	О				- Names other		Other immunisable	-	=	=	-	-
					immunisable		diseases.					
					diseases		- Immunisation sites					
							and schedules					
							- Importance of					
							immunisation					
9	1				<ul> <li>Describes the term</li> </ul>		Vaccines	-	-	-	-	-
J					vaccines		-What it is					
					<ul> <li>Outlines the types</li> </ul>		-Types of vaccines					
					of vaccines		-Examples of					
							vaccines					
							-antibodies					
	2				_	Roles of		- Guided	- singing songs		- Critical thinking	_
						individuals,		- Guidea	about		- Ontical triinking	
						families and		discussion				
								4.00400.01.	immunisation			
						communities						
						- How to identify an						
				1		immunize child						
						- Child health card						
						<ul> <li>Importance of a</li> </ul>						
						child health card						
						to parents and						
						health workers						
	3	Human Body	The digestive	Digestive	- explains what	- Constructs	Digestive system	- Demonstration	- Drawing and	_		_
	ľ			system	digestive system is;		- What it is		labeling the			
			System	System	- What is digestion	sentences about		- Discussion	different parts			
					- Name the types of	digestion	- Types of digestion	- Observation	of the digestive			
							- Process involved in	- Observation				
					digestion	- Spells words			system			
						correctly	the use of food in					
							animals					
							<ul> <li>Parts of the</li> </ul>					
							digestive system					
							<ul> <li>Functions of each</li> </ul>					
							part					
							- Digestion in the					
							mouth					
				1			- Function of the					
				1			gullet					
							Discotion of food in					
							- Digestion of food in					
<u> </u>							the gullet					
	4				-	-	Digestion in the			-	-	-
							duodenum					
							<ul> <li>Digestion in the</li> </ul>					
				1			ileum					
		1					<ul> <li>End products of</li> </ul>					
							digestion					

	5			The digestive	-	_	Enzymes	- Question and	- Defining	=	- Care	- Integrated
				juice			<ul> <li>What it is</li> <li>Characteristics of enzymes</li> <li>Diseases and disorders of the digestive system</li> <li>causes of constipation</li> <li>ways of keeping the digestive system in good health</li> </ul>	answer	different types of enzymes - Outlining diseases and disorders		- Effective communication	science bk5 pg 65
		The Environment	Components of the environment	SOIL	<ul> <li>defines terms related to soil</li> <li>Mention types of soil</li> <li>States the characteristics of different soil types</li> <li>Identifies the use of each type of soil</li> </ul>	<ul> <li>States the meaning of the given terms</li> <li>Describes the characteristics of different types of soil</li> <li>Makes sentences using the given terms</li> </ul>	- Definition	<ul><li>Question and answer</li><li>Explanation</li></ul>	- Drawing - Describing	- Different types of soil	- care - Effective communication	- Integrated primary 5 sci
10				Components of soil	- defines terms relates to soil - mentions types of soil - states the characteristic of different soil types - identifies the use of each type of soil	- Explains the experiment in correct English	- Components of soil - Importance of each soil competence - Experiment to show the presence of each component	<ul><li>Explanation</li><li>Guided</li><li>discovery</li><li>Discussion</li></ul>	- Performing experiments	- soil	- Problem solving - Responsibility	- Agric for secondary
	2			Soil formation, drainage and capillarity	<ul> <li>States ways through which soil is formed</li> <li>performs an experiment to show soil drainage and soil capillarity</li> </ul>	- Defines terms e.g weathering, decomposition, soil capillarity	- Soil formation  ✓ Weathering  ✓ decomposition  - Soil drainage  - Soil capillarity					- Baroque integrated scie

3		Soil erosion	<ul> <li>defines soil erosion</li> <li>states the causes of soil erosion</li> <li>Explains the effects of soil erosion</li> <li>Identifies methods of controlling soil erosion</li> </ul>	- Gives definition in good sentences - Writes the given sentences correctly	- definition of soil erosion - Agents of soil erosion - Effects of soil erosion - Methods of controlling soil erosion	-	-	-		-
4	1	Soil fertility	<ul> <li>Defines soil fertility</li> <li>Points out ways of improving soil fertility</li> <li>mentions the types of fertilizers</li> <li>gives examples of fertilisers (natural)</li> <li>explains the advantages and disadvantages of natural fertilisers</li> </ul>	-gives explanation in correct sentences -writes sentences correctly	- Soil fertility - ways of improving soil fertility - examples of natural fertilizers - Advantages of natural fertilisers	<ul><li>Question and answer</li><li>Explanation</li></ul>	- Describing	- soil	- Critical thinking - Problem solving - responsibility	
5	5	Artificial fertility  Soil pollutants	<ul> <li>Points out the examples of artificial fertilisers</li> <li>Lists the advantages and disadvantages of artificial fertilisers</li> <li>Defines soil pollutants</li> <li>Explains the effects of soil pollutants</li> </ul>	- Discusses the advantages and disadvantages of artificial fertilisers	- Examples of artificial fertilisers - Advantages and disadvantages of artificial fertilisers - Soil pollutants - Examples of soil pollutants - Effects of soil pollutants	- Guided discovery	- Writing	- Artificial fertiliserse.g CAN, DAP		_

	6		Soil	- Defines soil	-Gives definition	- Soil exhaustion	- Discussion	_	_	Į.	
	ľ		exhaustion	exhaustion	in correct	- Causes of soil	3.00000011				
			oxiidadiidii	- States the	sentences	exhaustion					
				causes of soil		- Methods of					
				exhaustion		preventing soil					
				- identifies the		exhaustion					
				methods of		GAHAUSUUH					
				preventing soil							
_	- 4		<del>-</del> -	exhaustion		T (	ъ.		0 :1 1	F. (:	
1'	<b>1</b>  1	Crop growing	ng Types of crops		- constructs	- Types of crops	- Drawing	- Tuber crops	- Guided discussion	- Effective communication	-
				of crops describes the tuber	sentences	- Tuber crops - Types of tuber crops	diagrams of	(real objects)	discussion	Communication	
				crops	correctly	- Examples of tuber	tuber crops		- Observation	- Critical thinking	
				- Outlines the types	- Spells words	crops					
				of tuber crops	- Pronounces	- Growing and caring			- Group work	0	
						for tuber crops			- Brain storming	- Concern	
					words	- Propagation of tuber					
						crops				- problem solving	
	2			- Gives the common	- constructs	- Common pests and	<ul> <li>Outlines any</li> </ul>	-	1		-
				pests and diseases	sentences	diseases of tuber	three				
				of tuber crops	correctly	crops	characteristics				
				- Outlines the		- Characteristics of					
				characteristic of	- Spells words	common tuber crops					
				common tuber crop	- Pronounces	- Effects of pests and diseases to tuber	tuber crop pests				
				pests - mentions the	words	crops					
				effects of pests and		- Methods of					
				diseases to tuber		controlling pests and					
				crops		diseases					
	3			- Gives examples	-Pronounces	- Leguminous crops	- drawing	- Real objects	-	- sharing	-
				of legume crops	words	- Examples of	•	of legume			
				- Gives the		legume crops	legume crops	crops			
				characteristics of	-constructs	- Characteristics of		-: - F -			
				legume crops	sentences	legume crops					
				- mentions the		- Cereal crops					
				examples of fruit	correctly	- examples of					
				crops	-Spells words	cereals					
				- Gives the	correctly	- fruit crops					
				examples of	<b>_</b>	- vegetable crops					
				vegetable crops		vogotable olops					
				vegetable crops					]		

I <sub>A</sub>	T T	Muraami bad	dofinos a muna	Dropouses	Nurson, bad	aatting	Dool	Crour	Compreties	
4		Nursery bed	- defines a nursery	-Pronounces	Nursery bed	- setting up a	- Real	- Group work	- Co-operation	-
			bed - Gives the	words	- Advantages of a	nursery bed	examples of	- Guided	- sharing	
			advantages of a	-constructs	nursery bed		crops grown	discovery	- critical thinking	
			nursery bed		- crops grown in a		in a nursery	u	l	
			<ul> <li>describes what</li> </ul>	sentences	nursery bed		bed		- Responsibility	
			transplanting is	correctly	<ul> <li>How to care for</li> </ul>					
			<ul> <li>Gives different</li> </ul>	-Spells words	crops in a					
			crop growing	•	nursery bed					
			practices	correctly	<ul> <li>Transplanting</li> </ul>					
					<ul> <li>crop growing</li> </ul>					
					practices					
5			- Gives the examples	-	- Garden tools	- Drawing	- Real garden		- Problem solving	-
			of common garden		<ul> <li>Examples of</li> </ul>	different garden	tools	- Guided		
			tools		common garden	tools		discovery		
			- mentions the uses		tools			- Group work		
			of different garden		<ul> <li>Uses of different</li> </ul>					
			tools		garden tools					
			- Gives ways of		- Caring for the					
			caring for the		garden tools					
	Matter and	Matter and its	garden tools - Definition of matter	- Describe matter	Definition of matter	Defining matter	water			MK Integrated
	energy	states	- Properties of matter		Properties of matter	Delining matter	water	-		Science bk5
	chergy	States	- Identifies what			Naming different	ash			pg103
			causes changes in	<ul> <li>States of matter</li> </ul>	Examples of matter in					pg.00
			matter state.	(solids, liquids	each state		sand			Comprehensive
			- Mention changes in matter states	and gases) - Stating examples	Diales iliai iliane up	Experimenting,	tins			primary Science
			- The examples of	of matter	matter	mixing and				bk5 pg49
			matter		Arrangement of	separating	bottles			
			- States of matter	arrangements in	molecules in each	mixtures				
			- Examples of matter in each state	each state of matter	state					
			- Molecuels in each	- List	Changes of states of					
			state of matter	characteristics of	matter					
	1	1	- Properties of each	each state of	Causes of changes of					
				11			i e	i	1	1
			state of matter		states of matter					
					Definition of each					
					Definition of each change					
					Definition of each change Illustration showing					
					Definition of each change Illustration showing the changes of states					
					Definition of each change Illustration showing					

Definition of		- Definitino of	- Describing	Definition of energy	Naming types	The pendulum		Mk integrated
energy		energy	energy	Types of energy	of matter	cob		science bk5 pg
		- Types of	- Writing	(kinetic and	Explaining the	Strings		106-109
		energy	short notes	potential)	forms of matter	Stones		Comprehensive
		<ul> <li>Forms of</li> </ul>	on forms	Forms of energy	Defining the	Burning candle		prim scie bk5
		energy	and types of	(sound, electric,	term heat			pg 50 – 59
		<ul> <li>Characteristics</li> </ul>	energy	magnetic, light)				
		of forms of		Definition of heat				
		energy		energy				
		<ul> <li>Defines heat</li> </ul>		Sources of heat				
		energy		Uses of heat				
		<ul> <li>Identifies</li> </ul>		energy				
		sources of						
		heat						
	Effects of	<ul> <li>Identifying the</li> </ul>	•	Listing down the	Stating effects	Butter	-do-	
	heat on	effects of heat	•	effects of heat on	of heat on	Ice		
	matter		contraction	matter	matter	Match box		
		- Drawing		Expansion and	Describing the	Nails		
		experiments		contraction		Burning		
		showing		Experiments of	effects of heat	candles		
		explosion and		illustrations on	on matter			
		contraction		expansion and				
				contraction				
				Preventing				
				expansion and				
				contraction effects	D:			
	Heat transfer	- Describing	- Drawing	Describing the	Discussing the	-do-	-do-	
	in matter	how heat	different	transmission in	ways in which			
		travels	diagrams	states of matter i.e.	heat travels			
		- Drawing	showing	solids, liquids, and				
		diagrams	heat	gases				
		showing how	transfer in	Explaining				
		heat travels in	matter	conduction,				
		different		convection and				
		materials		radiation				

Matter and	Application of		Observes parts	Importance of	Discussing the	Nails	Comprehe	ensive
energy	conduction,	improtance of		conduction,	important of	Cotton wool	Primary	Science
	convection	conduction,	flask	convection and	conduction,	Wires	bk5	
	and radiation	convection and radiation		radiation in	convection and	Cork	MK prima	ry
	in our daily life	in daily life.		everyday life.	radiation		Science b	k5 pg
		- Observing		Operation of a	Grouping		105 - 109	
		parts of a		vacuum flask	insulators and			
		vacuum flask.		Dangers of	conductors of			
		<ul> <li>Identifying the</li> </ul>		conduction	heat			
		differences		Differences				
		between		between insulators				
		conductors and insulators		and conductors.				
		and insulators		Giving examples of				
				insulators and				
				conductors				
				Application of				
				insulators and				
				conductors in our				
				daily life				
				Differences				
				between heat				
				absorbers and				
				reflectors				
	Forms of	- Defines	- Spells words	Definition of	Stating the	A clinical	Comprehe	ensiving
	energy	temperature	correctly	temperature	difference	thermometer	primary S	Scie bk5
	(temperature)	- Relates	<ul> <li>Reads stories</li> </ul>	Difference between	between heat	A chart	pg77 – 80	
		temperature to heat	about heat and	heat and	and	showing parts	Mk primar	у
		- States	temperature	temperature	temperature	of a	Scie bk 5	
		diiference	- Write short	Temperature scales	Observing they	thermometer	pg124-126	5
		between heat	stories on	Types of	types of			
		and	temperature	thermometer	thermometers			
		temperature	- Draws and	Identifying functions	Drawing and			
		- Explains the	labels ,types of	of parts of a clinical	labeling parts of			
		tyeps and uses of	thermometer	thermometer	a thermometer			
		thermometers		Identifying functions				
		- Converts		of parts of a clinical				
		degrees to		thermometer				
		different		Liquids in in				
		scales	1					

			•					
				thermometers				
				Advantages and				
				disadvantages of				
				each.				
				Conversion of				
				temperature from				
				one scale to				
				another i.e.				
				Centigrade to				
				Fahrenheit and vice				
				versa				
	Matter and	Defining what	Define the terms	Definition of	Discussing	A burning	3	Comprehensive
	energy	rusting and burning	combustion and	burning	what burning is.			primary Scie bk
		are.	rusting	(combustion)		Glass		5 pg83-85
		Explaining the	Spell the words	Stating the		Water		
				condition necessary	burning to take	Tines		
				for burning	place.			
		Describing ways of		Zones in a candle	Drawing and			
		= = =		flame.	labeling the			
				By products given	zones in a			
				out.	burning candle.			
			_	Experiments on	Ü			
				burning.				
				Ways of putting out				
				fire.				
				Definition of rusting.				
				Conditions for				
				rusting.				
				Experiments on				
				rusting.				
				By-products given				
				out.				
				Disadvantages of				
				rusting.				
				Ways of preventing				
				rusting of metallic				
				objects.				
				Comparing rusting				
1 1				and burning.				

Science in	Growing	The learner;	Name the	Definition of;	Identifying and	Cassava	Comprehensive pr
human	crops	Identifies the	common tuber	Root tubers	naming	Sweet	sci bk5
activities and		characteristics of	crops.	Stem tubers	common tuber	potatoes	
occupation		common tuber	Describe ways of	Examples of each	crops.	Irish potatoes	
		crops.	caring for tuber	type of tuber crop.	Describing	Yams	
		Discusses ways of		Growing and caring	ways of planting	Turnips	
		growing and caring	Rads words,	for tuber crops.	and caring for		
		for tuber crops.		Planting materials	tuber crops.		
		Identifies pests and	growing and	for tuber crops and	Listing the		
		dieases of tuber	caring for tuber	their qualities.	characteristics		
		crops.	crops.	Common pests and	of common		
		Describes the	Writes words,	diseases of tuber	tuber crop		
		characteristics of	sentences and	crops.	pests.		
		common tuber crop	stories about	Characteristics of	Explaining		
		pests and their	growing tuber	common tuber crop	controlling		
		effects.	crops.	pests.	pests and		
		Discusses methods		Effects of pests and	diseases of		
		of controlling pests		diseases to tuber	tuber crops.		
		and diseases of		crops.	Suggesting		
		tuber crops.		Rotting of tubers.	methods of		
				Holes in tubers and	harvesting/		
				in leaves.	processing and		
				Leaf yellowing and	storing tuber		
				curling.	crops.		
				Methods of	Identifying		
				controlling pests	advantages of		
				and diseases of	young farmers'		
				tuber crops.	clubs.		
				Harvesting,			
				processing and			
				storage of tuber			
				crops.			
				Young farmers club			
				Leguminous crops			
				Examples of			
				leguminous crops			
				Characteristics of			
				leguminous crops			

The world of living things	Bacteria and fungi	Describes characteristics of bacteria.  Discusses the ways preventing, controllign and treating bacterial diseases.	bacteria/ fungi Acts a dialogue on useful and harmful bacteria. Reads words, sentences and	Cereal crops Examples Characteristics fruit crops Vegetable crops A nursery bed Garden tools Definition of bacteria. Habitat for bacteria Feeding Breeding (movement) Types of bacteria Harmful bacteria Diseases they cause Prevention of such diseases Useful bacteria Definition of fungi Examples of fungi Harmful and useful fungi Importance of fungi Diseases caused by fungi Prevention and control of fungal diseases Comparison between bacteria and fungi Pioneers of Science; Edward Jenner, Louis Pasteur, Sir Ronal Ross, Robert Koch, Sir William Harvey, Joseph Listeretetc	term bacterial, fungi. Identifying different modes of bacteria.	Microscopes Testing specimens Books for reference Environment	Comp pi	ri sci	pg

Managing changes in the environment	Types of changes	of changes in the environment	Reads the words and sentences about the types of changes correctly	Changes in the environment  a) Biological changes; what they are, examples b) Physical changes; examples, characteristics of physical changes c) Chemical changes c) Chemical changes and characteristics of chemical changes  Effects of various types of changes to people, animals and plants.  Increases in size, increases in temperature, mountain formation, rain formation.	Explaining the different changes in the environment.  Identifying changes under biological, physical and chemical changes.  Experimenting on physical changes or states of water.	Blackboard Butter Candle wax Match box Kettle Water Stove Papers Ice	Comp pri sci bk
Keeping goats, sheep and pigs	Goats	Identifying the names of external parts of a goat.  Describing different breeds of goats.	Naming external parts of a goat.	Drawing and naming external parts of a goat.  Reasons why farmers rear goats.  Terms used in goat rearing.  Identifying the breeds of goats.	Listing the external parts of a goat.  Discussing the ways of feeding goats and housing them.	external parts of a goat.	Comp scie bkk MK integrated Sci bkk pg 69-7

Sheep		Naming external parts of a sheep	Stating the gestation period of a goat.  Feeding goats and housing them.  Types of goats.  Methods of grazing goats under each system.  Drawing and naming the external parts of a sheep Reasons for keeping sheep Terms used in rearing sheep Identifying the breeds of sheep Giving examples of local and exotic breeds of sheep Gestation period of sheep	labeling external parts of	A chart showing external parts of a sheep	Mk pri sch bk5 pg78-83 Comp pri sci bk5 pg36-45
management of goats and	qualities of a good house for a goat and a sheep	of goats and sheep.	Stating how a house for a goat and a sheep should be made.  Mentining the improtance of proper housing.	A chart showing a house of a sheep and that of a goat	Textbooks	-do-

			practices doen in management of goats and sheep.			
Castration	methods of castration	Writing sentences about methods of castration	Definition of castration Identifying the methods of castration Reasons for castrating male animals. Advantages and disadvantages of castration.	castration is.	A chart showing burdizzo	Mk pri sci bk 5 pg83 – 84
Diseases and parasites of goats	signs and	and parasites of sheep and goats.	_	Listing diseases of goats and sheep.  Discussing the signs and symptoms of goat diseases.  Listing examples of parasites	-do-	-do-

			sheep diseases and parasites.  Products from sheep and goats.			
Piggery	Describing terms used in piggery	Writing reasons for keeping pigs.	Definition of piggery.  Reasons for keeping pigs.  Terms used in piggery.  Breeds of pigs and examples	Discussing reasons for keeping pigs Explaining terms used in piggery.	A chart showing exotic breeds of pigs.	Mk pri scie bk 5 pg91-94
Proper pig housing and management	Identifying qualities of a good pigsty	Naming systems of rearing pigs.	Mentioning systems of keeping pigs.  Advantages and disadvantages of each system.  Qualities of a good pig house/ sty.  Advantages of proper housing of pigs.	Classifying breeds of pigs.  Naming different systems of rearing pigs.		Mk pri sci bk 5 pg96
Feeding pigs, weaning and deworming	Identifying the feeds for pigs	Naming methods of deworming piglets	Naming the feeds for pigs.  Stating the advantages of proper feeding of pigs.  State the period of	pigs. Stating the methods of deworming	Weeds used to feed pigs.  A bottle  A chart showing one deworming	-do-

	Heat period	signs of heat period	Writing sentences about gestation period and steaming up.	proper weaning of pigs.  Identifying the methods of deworming piglets.  Definition of heat period.  Mentioning signs of heat in a sow.  Definition of gestation period, steaming up.  Identifying the gestation period of a sow and advantages of steaming up.	,	Discussing signs of heat in a sow.	-do-	Comp pri sci bkg pg45 - 49
-	Diseases and parasites	and parasites of pigs	symptoms of pig diseases on a farm			•	Pupils text books	Comp pri sci bk5 pg 47-49 MK int pri sci bk 5 pg98 -100

piggery project	to consider when	examples of farm records.	Factors to consider when starting a piggery project.  Factors to consider when selecting a good piglet to rear.  Factors affecting piggery industry.  Farm records (definition)  Examples and importance of keeping farm records.		-do-	Comp pri sci bk 5 pg42 – 43 MK Int pri sci bk5 pg96 – 98
health nutrition	Explains what breastfeeding is, its advantages and disadvantages Explains what bottlefeeding is, its advantages and disadvantages and disadvantages Identifies vulnerable groups of people	Lists the food for different communities Recites poems and sings songs on breastfeeding Writes food diets for the vulnerable people. Explains some dishes for the vulnerable	Advantages and disadvantages to; The mother, the baby, the family 2. Bottle feeding	Writing advantages an disadvantages of breastfeedin to the mother, baby and family.  Explaining instances wher bottle feeding in necessary.  Listing different vulnerable groups of people.	g B B	

	 h	T	1	
	Who they are			
	Weaning babies,			
	the sick, elderly,			
	convalescents,			
	breastfeeding			
	mothers and their			
	breastfed babies,			
	pregnant mothers			
	and their unborn			
	babies			
	bables			
	4. Food for the			
	vulnerable			
	Valiforabio			
	Soft drinks, soft			
	foods, balanced			
	diet			
	5. Traditional			
	customs and food			
	taboos in			
	communities			
	What taboos are			
	Examples			
	Examples			
	Effects of food			
	taboos on nutrition			
	4 5			
	1. Food consumption			
	patterns in the			
	community			
	Staple foods of			
	different			
	communities			
	Other foods of			
	different			
	communities			
	33.11114111430			

		Primary	The learner;	The learner	1. Primary Health	Describing	Chalkboard	
		Health Care			Care	PHC, its	illustration	
		(PHC)		Describes what		elements and		
			PHC is, its	PHC is, its	What it is	principles.	Reference	
			elements and	elements and		r - r	books	
			principles.	principles.	Elements and	Practicing	<u></u>	
					principles of PHC	activities of	The local	
				Listens to stories		PHC in the	environment	
			activities of PHC in		2. PHC activities in	community		
			<u>'</u>	activities in the	promotion of			
			community hygiene	community.	community hygiene			
			P. 11.2.11	\\/	e.g. rubbish	D		
			· · · · · · · · · · · · · · · · · · ·	Writes words,	disposal	Demonstrating		
			·	sentences and	Protecting water	the		
			individuals, families		sources	responsibilities		
			and communities in		0001003	of individuals,		
			health promotion	the community.	3. Responsibility of	families and		
					individuals, families	community in		
					and the community	health		
					in health promotion.	promotion		
						Naming people		
					4. Suitable lifestyles	with special		
					and good health	needs in the		
					practices	community.		
						Community.		
					5. People with	Discussing how	,	
					special needs in	to care for		
					community e.g. the	people with		
					sick, the elderly, the	special needs		
					disabled, the	opeo.a. 110000		
					young.			
					6 Core for result			
					6. Care for people			
					with special needs			
					e.g. protection,			
					medication			
1	1	1	1	i e	1		1	i .