

PRIMARY FIVE
SCIENCE
SCHEME OF WORK

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WK	PD	THEME	TOPIC	S-TOPIC	COMPETENCES		CONTENT	METHODS	L/ SKILLS & VALUE	T/AIDS	L/ ACTIVITES	REF
					LANGUAGE	SUBJECT	BIOLOGICAL CHANGES					
1	1	Managing Changes in The Environment	Types of changes	Biological changes	The learner: -Spells words like growth, germination -Write SentencesAbout biological changes. Outlines the various examples of biological Changes.	The learners: -Defines biological Changes -Mentions the Examples of Biological changes. -States the characteristics of Biological changes Give the importance and dangers of biological changes	These are changes that take Place in the life of living Things. Examples -growth, germination Characteristics of Biological changes - importance and dangers of biological changes - Good and bad effects of biological changes	- Demonstration -Guided discovery -Guided discussion	-Self awareness - Critical thinking - Love - Appreciation	-Chart showing stages of growth in plants and animals	-Observing growth in germination and in human beings. -discussing effects of some biological changes like transpiration	Compsci bK 5. Integrated sci Pupils Bk. 5 -Mk int Sc pupils Bk.5.
1	2			Chemical Changes.	The Learner: -Pronounce Words LikeRotting,Rusting Burning. -Write poems about the effects of rusting. -Draws diagramsto Showrusting.	The learners: -defines the term Chemical change. -mentions the Examples of Chemical changes. -States the characteristics of chemical changes. -Describes the Experiment about Rusting. -Effects.	Chemical changes A type of change where new Substances are formed. Examples of Chemical changes. Rusting , burning, rotting.	Experimentation Demonstration Guided discussion observation	-Problem Solving logic	Match box, water ,nails or pins	Drawing experiments observing burning of papers discussing observed results of experiments	Comp primary science bk. 5 -integrated Primary Science Bk 5 -Mk Integrated Primary Science Bk. 5

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	3			Physical Changes	The learners: -Spells words like condensation, Evaporation, melting -Physical changes In the environment.	The learner: 1. Defines physical Changes 2.Mentions the examples of Physical changes. 3. States the Characteristics Of physical Changes.	Physical change is a type Change where no new substance is formed. Examples of physical Changes -Condensation , melting Sublimation, freezing. Evaporation - characteristics of physical change - importance and dangers of physical changes - Good and bad effects of physical changes	-Explanation -demonstrate Ion -Guided-discovery	-Problem Solving -Self esteem	Kettle or sauce p stove, bottle Bucket Candle wax	-Collecting Materials -observing Changes of State. -drawing a Conclusion About the experiment	Comp Pr Scie Bk 5 Supplementary science bk8 Contemporary science bk for upper primary .
1	4	Managing changes in the environment	Types of Changes	Natural Changes	The learner: -Spell s words like Landslides, Earth Quakes Floods -Pronounces words Like Earth quakes	The learners: -defines natural Changes. -mentions the Examples of natural Changes. -State the effects Natural changes in the environment. -cites the control of natural changes	natural changes -examples of natural changes - effects of natural changes in the environment - control of natural changes	-Guided discuss - Discovery - Brain storming	Self Awareness problem solving -Critical thinking	-school Environment -environment Outside school	-visiting the environmen and ask the community how they Control these chang	-comp Bk .5 -Mk. integrated primary science bk.5. Understanding intergrated science bk5
	5			Changes In the Atmosphe Re.	The learner: -Explains the words Like rainy, cloudy, Windy etc. correctly - Writes, reads spells and pronounces words like atmospheric correctly	The learner: - defines atmospheric change. -Mentions the Examples of Atmospheric Change. -State the effects of atmospheric Changes to man,	Examples of atmospheric Changes. -Global warming. -Changes in ozone layer -Change in weather Conditions. - changes in the quality of air	Guided discussio Discovery Brain storming observation	-Problem solving. -self awareness	Environment Outside school	-Observing Changes of Weather that day -discussing the effects that change bring to the environmen	Comprehensiv e guide book of intergrated science volume 2

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						animals and plants.						
	6			People Made Changes	The learner: - Pronounces words like people Made changes. -Spells words like Deforestation , Re-forestation	The learners; -Defines man made Changes. -Mentions the examples of man made Changes. -States the effects of people made changes	Manmade are changes in the environment that are brought about by people Examples -aafforestation -De-forestation - Road construction.	Brain storming Guided discussi Discovery excursion	Self-awareness Creative thinking appreciati on	Buildings Areas where road construction is taking place	Observin g areas where people have made changes and their effects.	Comprehensiv e guide book of intergrated science vol2
2	1	Human Body	Food and Nutrition	Feeding (food)	The learner: -pronounces words Like taboos and Beliefs. -Spells words like taboos and beliefs -Writes poems about feeding	The learner: - Defines food and feeding - States the meaning of nutrition - States the importance of food -Why people eat food	❖ Nutrition ❖ Definition of food ❖ Importance of food ❖ Reasons why people eat food. ❖ The 5H's	-Guided Discovery -Demonstration Guided discove Brain storming	-problem Solving -Self Awarenes s Appreciati on Critical thinking	-Different food stuffs like eggs, mangoes, posho	-collecting so food items -observing Displayed Foods and their uses	Comp sci pupils Bk. 5. Supplementary science bk8 Understanding intergrated science bk5
2	2			Tradition al customs and taboos.	The learner: -Writes words like Customs taboos. -Spells words like Customs taboos.	The learner: -Defines food taboos. -mentions the types of food taboos. -States the advantages and disadvantages of food taboos	• Food taboos • Types of food taboo • Cultural food taboo • Religious food taboo • Examples of food taboos • Advantages and disadvantages of food taboos.	Guided Discussion discovery	Logic Critical Thinking appreciation	Community members	Discussing Food taboos Of commun ities	Understanding intergrated science bk5 Comprehensiv e science book5

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	3			Food Beliefs.	The learner -Writes words like oil nuts. -Spells words like Oil nuts	-defines food beliefs -States examples of food beliefs.	• Food beliefs • Examples of food beliefs. • Advantages and disadvantages of Food beliefs • Effects of food beliefs to our communities.	Guided Discovery discussion	Logic Appreciatio Problem solving	Community memebers	Discussing Food beliefs with comm unity mem bers and their effects	
	4			Breast Feeding	The learner; - Explains the term breast feeding - reads writes and pronounces words like pregnancy, breast digestible correctly	The learners: -defines the term Breast feeding. -States the Advantages of Breast feeding. -Mentions the Advantages of breast feeding to (i) a mother (ii) a baby (iii) Gives conditions under which breast feeding is restricted	Breast feeding is the act of suckling a baby on breast milk produced. a) Advantages of breast feeding to the Mother b) Advantages of breast feeding to a baby. Disadvantages of breast feeding Conditions under which breast feeding is restricted	Demonstration Brain storming Guided discussi Discovery	Self-awareness Creative thinking Love Care Appreciatio n	Chart showing A breast feeding mother	Observing breast feeding Discussing advs and disadvs of breast feeding	-supplementar y science bk8 Understandin g intergrated science bk5
	5	Human Body	Food And Nutritior	Bottle Feeding	The learner: -pronounces words like bottle feeding . -Spells words like Bottle feeding nutrients	The learner: -Explains the term Bottle feeding. -States the Advantages of bottle Feeding -Identifies the Disadvantages of bottle feeding	Bottle feeding - Advantages of bottle feeding - Disadvantages of bottle feeding -Conditions under which bottler feeding is used	-Demonstratior -Guided Discovery - Brain storming	-Problem Solving -Self esteem	-Bottle -Milk	Demonstr ating bottle feeding Discussing merits and demerits of bottle feeding	-compre hensive Primary School Science Pupil's Bk. 5. -Integrated science pupils Bk. 5

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						-Gives conditions under which bottler feeding is sued						
	6			Proper ways of carrying out bottle feeding .	The learner: -Pronounces the Words correctly like Saucepan, boiling, weaning	The learner: -Identifies the various steps taken when carrying out bottle feeding -Defines weaning Gives the importanc weaning	**Steps taken when carrying Out bottle feeding** -Have separate saucepan with a lid for boiling. -The feeding bottle should have a lid to cover the nipple. Weaning, importance and how to start	- Brain storming - Guided discussion - Discovery - Demonstratio n - observation	- Love - Care - Appreciati on - Critical thinking - Effective communic ation	Bottle Saucepan water	Demonstrati ng steps of cleaning bottles and keeping them safely.	Understanding intergrated science bk5
	7			Vulnerabl e groups.	The learner: -Explains the term vulnerable -Mentions the Vulnerable groups of people. -Ways of caring for Vulnerable.	The learner: -Spells words like Sick people Weaning children. -Pronounces words like weaning children	-Vulnerable groups of people are people who need special care and diet - Examples of vulnerable groups of people - care for vulnerable - Food for the vulnerable people	- Brain storming - Guided discussion - Discovery - Demonstratio n	- Love - Care - Appreciati on - Critical thinking	Visit to vulnerab people	Visiting Vulnerabl e people	Understanding intergrated science bk5
	8	Human body	Food and Nutrition	Food Consump tion Patterns	The learner: -Writes words like Meals, patterns. -Pronounces words Like meals. -Spells words like Meals etc.	The learner: -Defines food Consumption Pattern. -States the importance of good feeding patterns. -mentions the Factors considered When choosing Food for a meal.	Food consumption Pattern is the number of meals a person has in a day, the time he or she has meals and what he or she eats at each meal. Importance of good Feeding patterns. -To make our bodies Strong. -To enable our brains to work properly. Factors that determine food consumption pattern	-Discovery -Guided Discussion - observation	-Critical thinking -problem Solving - Effective communi cation	Food stuffs Eaten in various areas	-collecting and observ ing food Stuffs of various areas	Understanding intergrated science bk5 Comprehensiv e science bk5
3	1			Balanced diet	A learner spells, writes, reads and pronounces words	A learner defines a balanced diet	A meal that contains all food values in their right amounts	Guided discovery Discovery	Self awareness	Food stuffs	- Observing and grouping	Supplementar y science bk8

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					like nutrients, carbohydrates, vitamins, proteins	- Gives the classes of food - mentions sources of differentiate cases of food - Gives the components of a balanced diet - States functions of different classes of food	- Components of a balanced diet - Classes of food - Sources and functions of carbohydrates, vitamins and proteins	Brain storming observation	Creative thinking Critical thinking Effective communication Love Care		different foods according to their classes they belong.	
3	2	Human body	Food and Nutrition	Malnutrition and Deficiency diseases	The learner: - Writes, reads, spells and pronounces words like deficiency, kwashiorkor etc correctly	The learner: -defines malnutritional/ deficiencydiseases. Mentionsexamples of deficiencydiseases. -Suggests the signs and symptoms of each deficiency diseases.	Deficiency diseases are diseases which are caused due to lack of certain food value in the diet. Examples, Haemophilia Kwashiorkor, Night blindness, Beriberi, pellagra, scurvy, rickets, Anaemia, Goitre	Guided discussi Brain storming Discovery observation	Effective communication Self awareness Care	Diagrams showing malnourished persons	-observing and discussing signs of a malnourished person	- do-
	3	Human Body	Food and Nutrition	Feeding habits	A learner: -Writes words like Habits. -Spells words like fatty foods.	The learner: -defines the word Habit. -Mentions the examples of bad feeding habits. -States the good feeding habits. - States dangers of bad feeding habits	A habit is something You do regularly without thinking aboutit. Examples of feeding habits. -Washing hands before eating -Not taking while eating -Not allowing cats and dogs to eat with you. -Eating fatty fats. -Eating a lot of sweet Foods - Examples of bad eating habits - Eating food with dirty ands	-Demonstration -Brain storming -Guided discussi - Discovery	-Critical thinking -Self Awareness - Effective communicati n	-soap -water -food	- demostrating and observing good eatig habits -discussing effects of bad eating habits.	Comp Pr Sch Sci Bk. 5. Mk integrated pr Sci Bk. 5.

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3	4	Human Health	Primary Health care	Elements of primary health care and its principles	The learner: -Writes words like Immunisation. -Spells words like Immunisation, Maternal and child health care.	The learner; -Defines primary Health care. -mentions the Elements of Primary health care -States the Principles of Primary health care	Primary health care is The essential health care where families individuals and communities come together to solve their common health problems. **Elements of primary Health care.** -Environmental Sanitation -maternal and child Health care. -Food and nutrition. -Immunization -Personal hygiene -First aid and basic curative care -family planning -Oral and dental insurance -Principles of primary health care	-Explanation -Demonstration -Discovery meth - Guided discussi	-Critical thinking -Self awareness	First aid kit	-demontrating first aid skills. -discussing Principles Of PHC.	Comprehensive Primary Science Pupils Bk. 5 -Mk integrated primary Science Pupils Bk. 5.
	5			Health Life style And Importan Of taking Regular Exercise.	The learners: -Writes words like Brushing, rest, Sleeping. -Spelling words like Brushing. -Spelling words like Brushing.	The learner: -Identify health Life styles. -States the importance of taking regular exercises. -States the Importance of Getting enough Rest and sleep.	Examples of health life Styles. -taking daily physical exercise. -Brushing teeth Regularly. -Bathing regularly. -A void drinking alcohol. **Importance of taking Regular exercise**. -Digestion of food is carried out regularly. -Extra and unnecessary weight is lost.	Demonstration Brain storming Guided discussi Discovery	Self esteem Self awareness Decision making Appreciation	Soap Sponge Water Sports attire	-demonstrating: good posture, physical exercises, washing hands etc	Supplementary science bk8
3	6	Human health	Primary Health	Ways how Individual	The learner: -Write words like	The learner: -States the ways	Primary health care. -Maintaining personal	-Discovery -Demonstration	-Critical Thinking	-Soap Water	Demonstrating activiti	Comp Prisc

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			Care.	S can Promote Primary Health Care.	Personal hygiene, bushing. -Spells words like Personal Hygiene.	individuals promotes primary health care. -Mentions things used in personal hygiene and their uses	Hygiene. -Promoting health environment.		-Self awareness -Problem solving	-Towel	es in perso nal hygiene	Pupils Bk. 5 -Mk. integrated prSc Bk. 5. Understanding intergrated science bks Supplementary science bk8 Contemporary science for upper primary. Comprehensive science bk5
4	1		Ways families maintain primary health care	The Learners: -spells, and writes words like latrines correctly	The learners: -Mentions the ways of families promoting PHC -Gives a reason for boiling water for drinking -Gives the importance o latrines , rubbish pit and dust bin	Ways families promotes PHC -having family Latrine -Covering food and Boiling drinking Water. -having rubbish pit for Putting in house hold Refuses.	- Brain storming - Guided discussion - Discovery - Demonstration	- Self awareness - Decision maki - Appreciation - Love - Care	- Latrines - Brooms - Rags - Water	Community members	-demonstrat ting practice like; picking rubbish, proper disposal of human waste etc	
4	2			The Community PHC	The learner: -Writes words like Campaign, Locality . -Spells words like Campaign. -pronounces words Like locality, campaign.	The learner: -Defines a commun -States the ways the community can participate in PHC	Ways communities can Promote PHC -Organizing regular community cleaning activities. -Reporting any Outbreak of a disease. -Assist in community health education.	- Brain storming - Guided discussion - Discovery	Self awareness	Community members	-brain Storming Ideas with Community members	
	3	Human Health	Primary Health Care.	Groups that carry out PHC in the community control of diseases without using drugs	The learner: -Writes words like Youth groups, Social welfare. -Self help groups. -Spells words like Self help groups.	The learner: -Identifies the Groups of people that carry out PHC.	Groups of people that Promotes PHC. -Youth groups. -Social welfare groups. -Self help group.	- Brain storming - Guided discussion - Discovery	-Self Awareness -Decision making -Appreciatio	Visit to those groups.	-visiting these groups of people -interview ing them.	- comprehensiv e Primary Science Pupils' Bk.5

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4	4 & 5			Community health and social problems	A learner spells, writes, reads and pronounces words like hygiene, sanitation etc correctly	A learner - Mentions community health and social problems - States the causes of common sicknesses at home - Mentions ways of controlling disease in the community without using drugs - State activities of a school health club	- Community health and social problems - Poor personal hygiene - Poor sanitation - Poor water supply - Inadequate food Cause of common sickness at homes - controlling common sickness in the community without using drugs - School health clubs - Activities of school health club	- Brain storming - Guided discussion - Discovery - Demonstration - -observation - excursion	Decision making Self awareness Self esteem Appreciation Love Care	-tour to market and slum areas -water -brooms etc	-observing -comparing dirty and clean environment. - demonstrating practices that control common sicknesses	
	6	Science In human activities and occupation	Keeping goats, sheep and pigs	Terms used in keeping goats	The learners: -Writes words like Nanny goat, breed, Billy goat, kid, Gestations period Etc. -Spells words like Kid, kidding, shed.	The learner: -identifies the terms used in the Keeping of goats. -Explains the terms Each at a time.	Terms -Nanny goats -Breed and type -Billy goat -kid. -kidding -shed. -gestation period. -Browsing -Steaming up.	Brain storming Guided discovery Guided discussion -observation	Self awareness Decision making Love and care	Chart showing external parts of a goat.	-observing external features -discussing terms used in goat keeping.	Understanding intergrated science bk5 Comprehensive science bk5 Mk primary science bk5
5	1			External parts of a goat and their functions.	The learner: -Writes words like mouth, nostril, eyes ears, horns, udder, hoofs etc correctly -Spells words like Udder.	The learner: -Draws the structure of a goat and names the parts. -States the functions of each Part.	- Structures of a goat - Functions of parts of a goat - Names products got from goats - States the uses of goats	- Brain storming - Discovery - Guided discussion - -observation	- Self awareness - Decision making - Love and care	Structure of a goat	Observing external features Drawing the structure of a goat	
	2			Breeds of goats. & types o goats	The learner: -Writes words like local and exotic breeds. -States and spells	The learners: -Explains the term breed. -States the breeds of goats.	<u>Breeds of goats.</u> Exotic & Local breed. <u>Types of goats</u> -meat breed -milk breed	Guided discussion Discovery Brain storming observation	Self awarenes Critical thinki Love Care	Goat's meat And milk	Observing local and exotic breeds	

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					words like meat and milk breed	Names the types of breeds of goats and their x-tics Names the types of goats	-breeds of goats Saanen goats Somali goats				-comparing local and exotic breeds	
5	3	Science in Human Activities and occupation	Keeping Goats Sheep and pigs.	Housing Goats.	Lang. Comp The learner: -Writes words like Slanting floor. -Spells words like slurry.	Subject .Comp. The learner: -State reasons for housing a goat. -Mentions the types of goat house. -Identifies the Materials for building goat house	<u>Reasons for housing Goats</u> -To protect goats from harsh weather Conditions. -To protect goats from wild animals. <u>Types of goat house.</u> -Modern goat house. -Traditional goat House Material for building -Modern goat house. -Traditional goat house.	-observation -Guided Discovery -Brain storming - Guided discussion	-Critical thinking -Creative thinking. -Problem Solving. -Self-awareness -Effective communication	Structures of Goat's shed	-observing different houses -drawing Goats Houses.	Mk. integrated Science Pupils Bk.5. - Comprehensive Primary Science Pupils Bk. 5. Understanding intergrated science bk5
	4			Qualities of a goat goats house.	The learner: -Writes words like Ventilated. -Spells words like Ventilated. -Pronounces words like well ventilated.	The learner: -Identifies the qualities of a good goat's house. -States the methods Of keeping a goat House clean. -Mentions the reasons for keepin goat's house.	<u>Qualities of a good goat house.</u> -It should be warm and well ventilated. -It should have a roof That does not leak. -It should have slanting floor. <u>Methods of keeping goats house clean</u>. -Sweeping the floor. -Disinfecting the floor regularly.	Guided discussio Brain storming -observation	Critical thinking Creative thinking	Structure of a goat's shed	-observing the way a goat's shed is constructe d -dis cussing features of a good goat's shed.	Understanding intergrated science bk5 Comprehensuv e science bk5 Mk primary science bk5
	5			Feeding Goats	The learner: -Writes words like succulent, forages, concentrates. -Spells words like Forages etc.	The learners: -States the types of Feeds that can be Given to goats. -Mentions the examples of feed.	<u>Types of goats feeds</u> -Forages -Concentrates -Succulents.	Brain storming Guided discussi Demonstration Discovery observation	Self awareness Creative thinking Love and care	Display of feeds of goats	-observing different feeds and their uses	

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						-States the uses.						
5	6	Science in human activities and occupan ion	Keeping Goats Sheep and pigs.	Methods Of Grazing Goats	The learner: -Writes words like Free range, zero grazing herdiryetc -Spells words like tethering	The learner: -Identifies the Methods of grazing Goats. -State the advantage Of each method of grazing goats. -mentions the Disadvantages. Each method of grazing goats	<u>Methods of grazing Goats.</u> -Free range system. -Zero grazing -Padlocking method -tethering Advantages of each Disadvantages of each method of grazing goats	-Demonstration -observation -Guided discussion -excursion	-Critical thinking -Creative thinking -effective communic ation - love -care	Farms with Different grazing systems	-observing the set up Of different Systems of grazing goats. -discussing their advantages and disadvantag es	-Comprehensiv e Primary school Science Bk. 5. -Mk. integrated primary science Pupils Bk. 5
6	1			Manage ment of breeding Goats.	The learner: -Writes words like Valve, mucus. -Spells words like Valve, mucus etc	The learners: -Defines breeding goats. -Explains heat perio and gives the signs and symptoms of heat period in goats	<u>Breeding</u> Is the keeping of Inherited Characteristics in Goats. Selection of good goats for breeding. <u>Qualities</u> -should be able to grow fast. -should have good Quality meat and Milk. -should be resistant to diseases. -They should be able to reproduce at least Once in a year. <u>Heat period</u> Is the period when a female goat is ready to mate. Signs of heat period in goats.	Demonstration Brain storming Guided discussi Discovery -observation	Self awaren Effective communic ation Critical thinking Love Care	-structure of a good goat for breeding.	-observing External Features Of a good Goat for Breeding -discussing Observed Features that make it good for breeding	-Understanding Intergrated science bk5 -Comprehensiv e science bk5 -Mk primary science bk5

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6	2	Science in human activities and occupation	Keeping goats Sheep and pigs.	Gestation Period.	The learner: -Writes words like Kidding, delivery, Steaming up. -Spells words like Steaming up.	The learners: -Explains the word Gestation period. -identifies the ways of caring for goats. -Suggest the various ways of caring for Pregnant goats.	Gestation is the time O n animal takes When it is pregnant The gestation period Of a goat is usually 150days or 5 months. <u>Steaming up.</u> Is the feeding of pregnant goats on protein reach feeds to prepare it for kidding <u>Advantages of Steaming up</u> -Helps to keep young Ones health and live. -helps the foetus to grow well.	-demonstration -Discovery Methods -observation	-Critical Thinking Self-awareness -logic	-display of protein rich foods	-Observing Foods rich In proteins -discussing importance providing pr rich foods	Fountain Integrated Primary Science Bk.5. Comprehensive Primary Science Pupils Bk.5.
	3			Diseases Of goats	The learner: -Spells words like Foot rot, foot and Mouth disease. -Writes words like Foot rot. -pronounces words Like foot rot.	The learners: -mentions the causes of diseases in goats. -States the different Diseases which affect Goats. -States the signs and symptoms of certain diseases. -Explains ways of preventing goat diseases Explains ways of preventing goat diseases	Diseases of goats -foot and mouth Diseases -Anthrax, Rinder pest, Nagana Foot rot, heart water, Black quarter. Ways of preventing disease that affect goats Ways of preventing diseases that affect goats	Guided discussion -observation -demonstration	Self awareness Critical thinking Effective communication Love and care	Affected animals -syringe	-observing animals infected with different diseases. -discussing signs of each disease. -demonstrating vaccination and hoof trimming	Understanding intergrated science bk5 Comp science bk5 Fountain science bk5 Supplementary science bk8
	4			Parasites	The learner: -Writes words like in parasites,	The learners: -Defines parasites. -Mentions the types	Parasites Parasites are living organisms that get	Guided discuss Brains storming Discovery	Self awareness	-liver flukes -tapeworms -ticks	-Observing parasites.	

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					ecto parasites. -Spells words like Parasites, ecto parasites.	of parasites in goats -States the example of each type of parasites. -Gives ways of controlling parasites	food from other living organisms without Killing them. Types of parasites endo parasites e.g. worms, liver flukes. Ecto parasites e.g. fleas, ticks, lice.		Critical thinking Effective communicati n		-dis cussing their effects	
6	5	Science in human activities and occupan ion	Keeping goats sheep and pigs	Effects of external parasites and their Control.	The learners; -Writes words like external parasites, quarantine etc. -Spells words like external parasites	The learner: -States the effectsof external parasites on goats. -Mentions the ways of controlling parasites	Effects of external Parasites -They leave sores on the goat's skins. -They cause itching of the body. -Some suck blood from goats. Ways of controlling external parasites -Dipping animals in acaricides -Picking the parasites from the body of animals by hand. -Practicing rotational grazing	-observation -Brain storming	-Critical thinking -Effective communicati n Care Love	-affected animal	Observing external effects of external parasite attack on the animal's body	Mk. integrated primary Science pupils Bk. 5 Comprehensiv e Primary school science pupils Bk.5.
	6			Effects of internal parasites on the animals.	The learner: -Writes words like li flukes -Spells words like Alimentary canal.	The learner: -mentions the examples of internal parasites. -States the effects of internal parasites in goats. -States the ways. of controlling internal parasites	Examples of endo parasites Liver flukes , Round worms, Tape worms. Effects of endo parasites on animals -Some damage the internal organs. -Some suckblood from the animal's body and cause anaemia. -Excessive worms can cause diarrhoea. How to control. -Deworm animals using drugs.	Demonstratio n Guided discussion -observation	Self awareness Effective communica tion Critical thinking	-Tape worms -Liver flukes -Hook worms	-Observing Structures of endo parasites -discussing their effects and their control.	Supplementary science bk8 Comp guide book for intergrated science vol2

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							-Avoid deworming animals in swampy areas. -Keeps their feeds clean.					
7	1	Science In humar Activities And occupan ion	Keeping goats , Sheep and pigs	Keeping Sheep.	The learners: -Writes words like Ewe, ram , lamb etc -Spells words like Ewe	The learner: -Identifies the terms that arecommonly used in sheep keeping – Defines each term. -States the importance of keeping sheep. Mentions products got from sheep	Terms used in sheep rearing Ewe, ram, docking, shearing, mutton, drenching,dozing,dehorning. Importance of keeping -For wool production -For skin production -Source of income -droppings areusedfor making farm yard manure. Products got from sheep	-observing -Guided discussion	-Critical Thinking -Brain storming -Creative thinking -Love and care	-Wool from sheep -skins of goats	-observing products from sheep -discussing importance of wool and skins from sheep.	Comprehensiv e Primary science pupil's BK. 5 Mk integrated primary science pupil's Bk. 5 -Fountain integrated science pupils Bk. 5
	2			External parts of a sheep	The learner: -Spells words like tail, mouth, thigh etc -Writes words like ta mouth, and thigh.	The learners: -Draw s the structur of a sheep and names the parts of a sheep. -States the functions Of each part	Uses of sheep and products got from sheep Various parts. Hoof, mouth, nose, ear, eyes, tail, udder. Functions of each part	Demonstration observation	Critical thinking Effective communicati n	A chart showing external parts of a sheep	Drawing Observing external parts of a sheep	
	3			Breeds of sheep.	The learners: -Writes words likes local breeds, exotic breed. -Spells words like local breed exotic breed.	The learner: -Explains the term breed. -identifies the breeds of sheep. -States the characteristics of each breed.	<u>A breed of sheep</u> Is a family of sheep kept having similar characteristics <u>Types of breeds of</u> sheep. -Local breed -Exotic breeds.	excursion Guided discuss Guided discove	Critical thinking Effective communicati	Flock of sheep on a farm	Observing external features of local and exotic breeds	
7	4	Science i human activities and occupati	keeping goats sheep and pigs.	Housing sheep	The learner: -writes, reads, spells and pronounces words like	The learners: -States the reason f house sheep. -Mentions the qualities of a good sheep house.	<u>Reasons for housing sheep.</u> -To protect sheep against wild animals. -To protect sheep from bad weather. Questions of a good sheep house.	Explanation -Guided Discussion Discovery Brain storming	Critical Thinking Creative thinking Effective communica tion	Chart Showing sheep House.	Drawing sheep's house	Comprehensiv e Primary science Pupils Bk.5 -Mk. integrated

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						-Mentions the methods of keeping Sheep house clean.	-Should be constructed withslanting floor. -Should be well ventilated. Waysof keeping a sheep house clean		Love Care			primary science Pupils BK. 5
	5			Grazing Sheep.	The learner: -Writes words like free range system. -Tethering, zero grazing .padlocking. -Spells words like padlocking.	The learner: -Mention the methods of grazing sheep. -States the advantages and disadvantages of the above methods.	<u>Methods ofgrazing sheep.</u> -Free range grazing -tethering methods -Zero grazing -paddock	Guided discussi Discovery observation	Critical thinking Effective communicati n Love and care	Rope Peg Fencing nails Barbed wires	-observing and discussing structures of different methods of grazing	
7	6	Science in human activities and occupati	Keeping goats, sheep	Activities done on a sheep farm	The learner: -Spells words like hoof trimming castration, docking shearing , deworming vaccination, feeding ,dehorning -Writes words like Castration, hoof, trimming	The learners: -Spells words like ho -States the Importance of eacl Practice. -Identifies the Dangers of each Practice.	Activities carried Out on a sheep farm -Hoof trimming -Docking -vaccination -Deworming -Feeding -Dehorning -castration -Castration. -Definition -Advantages and Disadvantages of activity	-Discovery -demonstration -Brain storming - Guided discussion	-Critical thinking -Effective communic ation Self awareness	Razor blade, knife,syringe,r ubber ring,burdizzo,h ot dehorning iron, spoon dehorner	-drawing equipment for different operations -observing different equipment and discussing their use.	Comprehensiv e Primary Science Pupils Bk. 5. -Mk integrated primary science Pupils Bk. 5
8	1			Managem ent of sheep (breeding	The learner Spells, writes and pronounces words like pregnant heat, correctly	The learner: -defines heat period -States the signs and symptoms of heat Period. Gives ways of caring for a young sheep (lamb)	-Breeding -Heat period -Symptoms and signs of heat in sheep. -caring for pregnant sheep. -<u>management of young sheep</u>. -providing fresh water. -provision of feeds regularly. -vaccination -Deworming	Demonstration Brain storming Guided discussion Discovery	Effective communica tion Self awareness	Water Feeds Syringe Drenching gun Deworming tablets	- Demonstrat ing deworming And vaccination -observing materials.	Understanding intergrated science bk5

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8	2	Science in human activities and occupation	Keeping sheep, goats and pigs	Diseases Of sheep	The learner: -Spells words like Pneumonia correctly -Writes words like Pneumonia.	The learners: -Identifies the signs and symptoms of sickness in animals. -identifies the diseases in sheep. -States the causes , signs and symptoms of diseases in sheep. - states ways of controlling sheep disease	Diseases in sheep. -pneumonia -lamb dysentery, foot and mouth disease, foot rot, mastitis, heart water. Ways of preventing sheep diseases	-Demonstration -Discovery Guided discussi Brain storming	-Critical Thinking -effective communication Creative thinking	A chart showing a diseased sheep	Observing signs of animals infected with different diseases.	Comprehensive Science Pupils Bk.5 Mk. integrated primary science pupils Bk. 5
8	3			Parasites of sheep.	The learners: -Spells words like In do parasites ecto parasites .etc	The learners: -Identifies the type of parasites. -States the examples of each type -States the signs of parasites in sheep.	Types of parasites -Indo parasites -Ecto parasites Examples of ecto parasites Flea, ticks, lice Examples of endo parasites	Demonstration Brain storming Guided discussi	Critical thinking Self awareness Care	Ticks, worms, tsetse fly	Observing different structures of parasites	
	4			Effects preventio n and control of parasites	The leaner spells, writes and pronounces words like wounds, parasites etc correctly	The learners: -States the effects ofparasites on sheep. -mention s the prevention and control of parasites.	Effects of parasites on sheep. -Some parasites suck blood from the bodies of sheep. -Some cause wounds	Demonstration Brain storming Guided discussi	Critical thinking Self awareness Love and care	Ticks, tsetse fly	-observing the structure Of a tick and a tsetse fly	
	5	Science In human Activities and occupati	Keeping goats, sheep and pigs	Keeping pigs	The learners: -Spells words like Piggery gilt, castration. -Writes words like cow, pork. boar, Farrowing, Bacon, hog etc correctly	The learner: -Explains the terms used in the keeping of pigs . -States the importance of keeping pigs .	Keeping of pigs -Piggery -Gilt, castration, boar, saw, farrowing, bacon, hog sty. Importance of keeping pigs. -Source of income -provides hair for making wigs andbrushes.	- Demonstration -Discovery Guided discussion Brain storming	Critical thinking Self awareness Creative thinking	A chart showing external parts of a pig.	Observing external parts of a pig	Mk. integrated primary science Pupils Bk. 5 comprehensive

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						Mentions products got from the pigs	-Sources of food. Products got from pigs					Primary science pupils Bk. 5
	6			External parts of a pig.	The learner: -Spells words like tail, snout, nostrils, eyes, ears. -Writes words like snout, nostrils etc.	The learners: -Draws the structure of a pig and names the parts. -States the function of each part.	Refers to the lessons for the structure of pig Functions of parts of a pig	Demonstration Brain storming Guided discussi	Self awareness Critical thinking	Chart showing the structure of a pig	-Drawing the structure of a pig	
9	1			Breeds of pigs	The learners: -Writes words like local and exotic breeds -Spells words like indigenous exotic etc correctly	The learners: -Defines a breed. -Identifies thetypes ofbreeds of pig.	Types of breeds of pigs Breeds of pigs. -Local breed Characteristics -Advantages and Disadvantages of each -Exotic breeds -Characteristics -Advantages and disadvantages ofexotic breeds.	Observation Brain storming excursion	Self awareness Critical thinking	-Slides showing breeds of pigs.	-observingbreeds of pigs and their colour	
9	2	Science in human activities and occupations	Keeping goatsand sheep.	Proper housing and management of pigs	The learner: -Composes poems about qualities of a good house for pigs. -Writes words like ventilation correctly	The learner: - -States the reasons for housing pigs. -Suggests the qualities of a good pig house. -States the methods of keeping pigs house clean.	<u>Pregnant sows and gilts</u> -Good feeding -Protecting the pigs against diseases and parasites -Separating pregnant pigs from others when they are about to farrow. -providing clean grass and strew to serve as beddings. -Putting pregnant sows in a farrowing crate to prevent them from stepping on the piglets.	-demonstration -Discovery -Guided discuss -excursion	-Critical thinking -Self awareness	Structure of pig sty -farrowing pen -grass prepared as beddings.	-observing a farrowing pen with guard rails. -demonstrating the preparation of beddings used for farrowing.	Comprehensive Science Pupils Bk. 5 -Mk integrated primary science pupils Bk. 5

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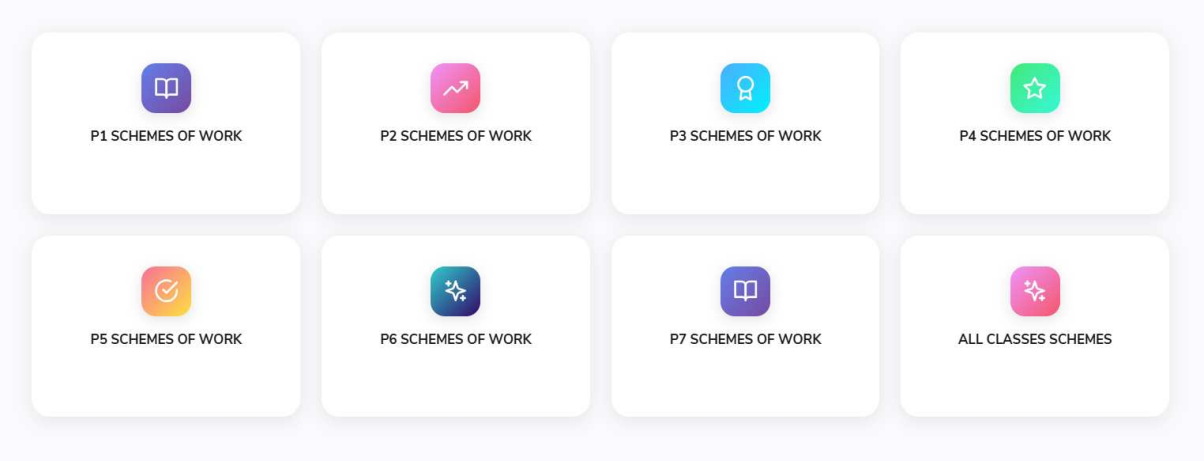
	3			Feeding pigs	The learner: -Spells words like creep feeds sow andweaner meal. -Writes words like Creep feeds correctly	The learners: -States the classes Of pig feeds. -Draws the digestive system of a pig and names the parts. -States the functions of each part.	<u>Classes of feeds given to pigs.</u> - Creep feeds. - Sow and weaner meal. - Finisher or fattener meal. -Digestivesystem of a pig.	Observation Brain storming Guided discussio Brain storming	Critical thinking Self awareness	-Display of commercial feeds for pigs -digestive system of a pig	-Drawing the digestive system of a pig. -observing feeds of pigs.	
	4	Science in Human activities and a occupation	Keeping goats, sheep and pigs.	Castration	The learner: -Spells words like open castration -Writes words like castration	The learners: -Defines castration. -States the methods of castration -Identifies the advantages and Disadvantages of castration.	<u>Castration</u> Castration is the removal and destruction of testes <u>Methods of castration</u> -Open castration -Closed castration -Use of loop method Importance of castration -It makes handling ofanimals easy. -It controls inbreeding. - Disadvantages of castration	-observation -Discovery -demonstration	-Critical thinking -Observation Creative thinking Self awareness	A burdizzo Razor blade Rubber elastrator	-Demontrating methods of castration -Observing castration of different farm animals	Comprehensive primary science pupils Bk. 5 -Mk. integrated primary science pupils Bk. 5
	2			Systems of keeping pigs	The learner: -Writes words like ex , intensive , sei intens -Spells words like intensive , extensive	The learner: -States the system c keeping the pigs -States the advantages and disadvantages of keeping pigs.	<u>Systems of keeping pig s.</u> -Intensive system. -extensive system. -Semi intensive Advantages and disadvantagesof each, refer to the lesson notes.	Demonstration Discovery Guided discussi excursion	Critical thinking Creative thinking Self awareness	Pig farms	-Observing systems of keeping pigs. -discussing their differences.	Comp guide bk for intergrated science vol2
	3			Breeding in pigs.	The learner: -Spells words like hereditary , body formation -Writes words like hereditary.	The learners: -States the factors considered when selecting a good pig for breeding -Defines heatperiod and states the signs and symptoms of heat.	<u>Factors considered</u> when selecting a good pig for breeding. -Heredity. Body formation. -Number of teats. Heat period	Discovery Brainstorming excursion	Self awareness Effectives communication	Body structure of a god pig n a farm	-observing the body of a pig. -discussing visible signs of heat in pigs.	Comp. guide bk for intergrated science vol.2

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						-Explains the term steaming up.	Sings of a pig on heat steaming up and its advantage					

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