

P.5 SCIENCE SCHEME OF WORK - TERM ONE – THREE

WK	PD	THEME	TOPIC	SUB TOPIC	Subject competence	Language competence	CONTENT	Method	Activity	t/l aids	Life Skills& Values	REF
1	1	**Science in human activities and occupation**	**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	- Terminologies used in poultry. - Poultry - Poultry keeping - Hens - Cocks - Chicks - Pullets etc - Examples of poultry - Importance	- Question and answer - Discussion - Guided - discovery - Field trip	- Naming examples of poultry - Describing different examples of poultry - Answering questions	-hens -Cocks -Eggs	-Effective communication -Critical thinking -Problem solving	- Primary five curr. pg 22-24 - Baroque integrated science pg 1-2
	2				- The learner; - draws and describes external parts of a domestic fowl	-	- External parts of a domestic fowl - Functions of each part - Physical differences between a cock and hen		- Drawing and naming the external parts of a hen	- A domestic fowl	- Care -Responsibility	- Agriculture for secondary schools
	3				- Identifying different types of feathers. - Giving the importance of feather	-	- Feathers - Importance of feathers to people and birds - Types of feathers - Diagrams of different feathers	-	-	- Feathers	- Drawing different types of feathers - Stating the importance of feathers	-

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	4				- Identifying the examples of chicken	-	- Types of chicken ▪ Layers ▪ Broilers ▪ Dual purpose - Examples of each type of chicken	-	-	-	- Naming different types of chicken - Giving examples of each type of chicken	-
	5		**Keeping poultry and bees**	**Poultry keeping**	The learner: - Describes the breeds of chicken - Writes examples of exotic breed - Gives the characteristics of each breed - Writes the advantages of each type of breed	The learner - Pronounces, reads, writes and spells the words correctly	- Breeds of chicken - Local breeds - Hybrids - Examples of exotic - Characteristics of local and exotic breed - Advantages and disadvantages of exotic breed	- Guided discussion - Filed trip - Question and answer	- Answering questions - Naming the exotic breed	- Poultry birds	- Decision making - Problem solving	- Beginning agriculture A course bk for pupils pg 65-69
	6				- Describes the systems of keeping poultry - Gives advantages and disadvantages of each system	- Constructs correct sentences about systems of poultry - Spells the names of each system correctly	- Systems of keeping poultry. - Free range system - Advantages and disadvantages - Deep litter system - Advantages and disadvantages of deep litter system	- Field trip	- Explaining how to manage systems of keeping poultry - Describing the systems of keeping poultry	-	Creative thinking Appreciation Love Care	- Baroque integrated science pg 4-10 - Livestock technical hand bk 76-78
2	1				- Describes the system and keeping poultry	- Construct correct sentences about poultry	- Battery cage system - Advantages and disadvantages - Fold pen system - Advantages and disadvantages	- Field - trip	-	- Systems of keeping poultry	Effective communication Creative thinking	- Baroque integrated science pg 4-10

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	2	**Science in human activities and occupation**	**Keeping poultry and bees**	**Poultry keeping**	The learner: - Outlines the good feeding practices in poultry - Identifies different feeds	-	- management practices in poultry - Feeding of chicken - Reasons why we feed poultry - Types of mash - Classes of food needed in the bird's diet	- Observation - Discussion - Question and answer	- Mixing poultry feeds - Identifying the sources of each class of food	- Poultry feeds	- Problem solving - Creative thinking - Responsibility	- Primary 5 curr. pg 23
	3				- Lists the general good feeding practices in poultry - identifies the functions of each part	- Draws and names different parts of a fowl in correct English	- Good feeding practices in poultry - The digestive system of a fowl - Function of each part	- Demonstration	- Drawing and naming of alimentary canal	- The digestive system	- Critical thinking	- Baroque integrated science pg 12-13 - Beginning Agriculture bk 3 pg 70
	4				- The learner: - Describes the term incubation - States the conditions necessary for incubation - Names the two types of incubation	- Spells and pronounces words correctly	- Incubation - What it is - Conditions necessary for eggs to hatch - Incubation period of different birds - Types of incubation ▪ Natural & Artificial - Advantages & disadvantages	- Explanation - Question and answer	- Explaining the conditions necessary for incubation	- Poultry birds	-	- Beginning Agriculture bk 3 pg 59
	5				- Defines artificial incubation	-	- Artificial incubation - Advantages and disadvantages	- Observation	- Drawing the incubator	- A chart showing an incubator	- Effective communication	-
	6				- The learner; - describes the term breeding - Identifies the types of brooding - relates brooding in his/her life situation	The learner; - Constructs correct sentences about brooding - Spells, writes/reads and pronounces correct sentences and words	- Brooding - What it is - Types of brooding ▪ Natural brooding ▪ Artificial brooding - Natural it is - Advantages and disadvantages	- Discussion - Group work - Question and answer	- Defining the term artificial brooding - Naming the type of brooding	- The structure of a brooder	- Effective communication - Creative thinking	- Primary five curr pg 23

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					-		- Artificial brooding - What it is - Advantages and disadvantages - Requirements for a brooding - Types of artificial brooding - A diagram of a brooder	-	-	-	-	-
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	- Fertilisation in poultry. - What it is - The oviduct of a hen - Internal structure of an egg - Function of each part of the egg	-	- Drawing and labeling the oviduct and the structure of an egg	- The oviduct of hen - An egg	- Responsibility - Care	- Agriculture for secondary schools pg 104
	2				-		- Poultry vices - What it is - Causes of poultry - Examples of poultry vices - Egg eating - Signs of egg eating - How to control egg - Egg eating	-	- 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	- Cannibalism (definition) - Signs and causes of cannibalism - Prevention of cannibalism - Feather, skin and toe pecking - Causes - signs - Ways of preventing	- Guided discovery - Observation - Field trip - Question and answer	- Identifying different poultry vices and their signs - Naming causes of poultry of poultry vices	-	- Self awareness - Effective communication - Empathy	- Intergrated science pg 13-14

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						words correctly	feather, skin and toe pecking					
	4			**Poultry diseases**	- 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 diseases a) Coccidiosis - Signs and symptoms - Ways of controlling b) Black head - signs and symptoms - prevention and control	- do -	- Outlining poultry diseases - Identifying poultry diseases	-	- Logical and critical thinking	- Fountain primary science pg 20-21
	5				- Lists viral poultry diseases - Gives signs and symptoms of viral diseases	- Reads, pronounces and writes the words correctly - Constructs correct sentences	- Viral diseases a) New castle disease b) Gumbro 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	- Reads, pronounces and writes the words correctly	- Bacterial diseases a) Pneumonia - Signs and symptioms - Prevention and control b) Fowl typhoid - signs & symptoms - Prevention and control	- Questions and answer - Discussion	- Naming examples of bacterial diseases - Identifying signs of bacterial diseases	-	- Effective communication - Critical thinking	- Fountain primary science bkspg 20-21

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					bacterial diseases		c) Avian leucosis - signs & symptoms - General control of poultry diseases					
4	1			**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 - Effects of endo parasites - Control of endo parasites - General control of poultry parasites - Practices in proper management of poultry	- Discussion - Question and answer - Explanation	- Naming types of poultry parasites - Identifying examples of ectoendo parasites	- Tick mites	- Critical thinking - Effective communication	- Fountain primary science bkspg22
	2				-		-	-	-	-	-	-
	3				The learner; - describes the term poultry farm records - Outlines the importance of records	- Constructs sentences correctly about farm records - Pronounces words correctly.	Farm records - What it is - Examples of farm records (types) - importance of farm records - factors to consider when starting a farm	- Discussion - Demonstration - Guided discovery	- Defining the term farm - Records - Outlining some examples of farm records	- The farm record	-	- Fountain Integrated primary science bk5 pg 19
	4			**Keeping of bees**	The learner; - gives different types of bees	- Constructs correct	Bee keeping - Apiculture - Definition	- Question and answer	- Drawing of different types of bees	- The structure of Queen,	- Effective communication	- Livestock technical hand book pg 110-111

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					- identifies the function of each type of bee in a hive	sentences about bees - Pronounces words correctly	- Colonies - Social insects - Solitary insects - Types of bees (casts) - Queen structure - Importance	- Discussion - Demonstration	- defining the term swarming	drone and worker bee	- Creative thinking	
	5					-	- Drone bee – structure - Importance - Work bee - Importance of work bee in the hive - Diagram of honey comb Uses of propolis in a hive		-	- The structure of Queen, drone and work bee	- Logical thinking - Care - Concern	- Baroque integrated science pg 17-18
	6				- Describes the term swarming - Outlines some reasons why bees swarm	- Constructs correct sentences about bees swarming - Spells words correctly	SWARMING - What it is - Reasons why bees swarm - Methods of preventing swarming	-	-	-	-	-
5	1				- Names parts of a bee and their function. - Identifies the importance of bee to people and plants	- Constructs correct sentences about the life cycle of a mosquito	<u>LIFE HISTORY OF A BEE</u> - Diagram showing the lifecycle if a bee. - External parts of a honey bee - Functions of each part	- Discussion - Question and answer - Demonstration -	- Drawing and naming lifecycle of a mosquito	-	- Effective communication - Critical thinking - Appreciation	- Baroque integrated science pg 19-20
	2				- Outlines the types of a bee hive - Draws the diagram of a bee hive	- Pronounces, spells and writes words correctly	- Importance of bees to people and animals - Products got from bees - Uses of honey - Products got from bee works	- Guided discovery	- Answering questions correctly	-	- Responsibility - Care	- Primary five curriculum pg 23

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	3				- Outlines the types of bee hives - Draws a traditional bee hive	- Reads words correctly - Spells words correctly	<u>Bee hive</u> - Types of bee hives ✓ Traditional bee hive ✓ Modern bee hive - Traditional bee hive ✓ Examples of a traditional bee hive ✓ Diagram of a traditional bee hive - Advantages and disadvantages of a traditional bee hive	-	- Drawing a traditional bee hive	- The structure of a traditional bee hive		- Livestock technical and handstockpg 110-111
	4				- Draws a modern bee hive - Gives the advantages & disadvantages of a modern bee hive	- Pronounces, spells and writes words correctly	<u>Modern bee hive</u> - 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	- Constructs correct sentences about bees. - Spells different words	- Differences between traditional and modern bee hive. - Harvesting of honey - Equipments used by a bee keeper when handling bees - Materials used in a smoker	- Guided discovery - Demonstration - Group work	- 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

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							- Diagram of a person ready to harvest honey					
	6				- Outlines the methods of extracting honey - Gives the products of bees - Gives the importance of bees	- Constructs sentences well - Reads words properly	- Honey extraction - Methods of extracting honey ✓ pressing method ✓ floating method ✓ centrifigue - Products of bees - Importance of bees - Feeding of bees	- Guided discovery	- Outlines various methods of extracting honey - Give two products of bees	-		- Baroque integrated science pg 21-25
7	1				- Outlines the factors to consider when setting a hive - Gives methods of stocking a hive	- Pronounces words correctly - Spells words well	<u>Sitting and stocking a hive</u> - Factors to consider when setting a hive - Stocking a hive - Ways of stockings a hive (methods)	-	- What are the factors to consider when setting a hive	-	-	-
	2				- Gives the ways of preventing enemies from attacking bees - Gives the occasions when a bee keeper handles bees	- Constructs sentences well - Pronounces words correctly	- Enemies of bees - Ways of preventing enemies from attacking bees - Occasion when a bee keeper handles bees.	-	- Give any three ways of preventing enemies from attacking bees	-	-	-
	3	**Matter and Energy**	**Measurement**	**Measuring**	- States the different measurements of objects - Explains the need for standard measure of massive weight and volume	- Constructs correct sentences about measurement - Spells, pronounces and writes words like length, mass, etc correctly	- Measuring, what it is. - Length - What it is - Units for measuring length - Materials used to measure length - Area - What it is - Finding area by counting square units	- Observation - Discussion - Guided discovery - Filed trip	- Comparing different objects by mass, volume and weight	- Bricks - Boxes - Books	- Self awareness - Effective communication - Creative thinking	- Long man primary science pg 91-100

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							- Finding area using the formular					
	4				-	-	- Mass and weight - What they are:- - Basic units of each of them - Differences between mass and weight	-	- Defining mass & weight	-	- Logical thinking - Appreciation	-
	5				-	-	- Volume and capacity - What they are - Finding volume of objects - Types of objects - Finding volume of regular objects - examples of regular objects	-	-	-	-	-
	6				-	-	Irregular objects - What they are - Finding volume of irregular objects - examples of irregular objects	-	-	-	-	-
8	1			**Behaviour of objects in water**	- describes the behaviour of objects in water - Identifies floating and sinking objects - Relates floating and sinking objects in his or her life situation	- Constructs different sentences correctly - Spells words correctly	Behaviour of objects in water floating and sinking objects Examples of objects (sinking and floating objects) Buoyancy force Reasons why some objects sink and float	- Demonstration - Observation	- Collecting leaves in water	- Conc leaves water	- Effective communication - Creative thinking - Critical thinking	-
	2				-	-	Density - What it is - Its standard unite	-	-	- Instruments for measuring density	-	-

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							- Instrument for measuring density - Finding density of objects - Finding density, mass and volume in relation					
	3	**Human Health**	**Immunity and Immunisation**	**Immunity**	- 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 immunity - Immunisation Childhood immunisable diseases	-	- defining the terms immunity and immunisation - Identifying different types of immunity	-	- Effective communication - Critical thinking -	- Primary five currpg 38-39
	4			**Immunisation**	- Identifies the causes of tuberculosis and its signs - Outlines different ways of preventing tuberculosis	- Constructs correct sentences about immunisable diseases - Spells, writes and reads common words correctly	Tuberculosis - causes, signs and symptoms - prevention and control polio (poliomyelitis) - causes, signs and symptoms - prevention and control	- Discussion - Guided discovery - Question and answer	- Outlining the causes of signs of immunisable diseases	-	- Self awareness - Effective communication - Self esteem - care - empathy - responsibility	-
	5				-	Whooping cough - Cause, spread - Signs & symptoms - Prevention & control Diphtheria - cause, spread - Signs & symptoms		-	-	-	-	-

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						- prevention and control Hepatis - Signs, cause, prevention - Effects of immunisable diseases to children						
	6				- Names other immunisable diseases		Other immunisable diseases. - Immunisation sites and schedules - Importance of immunisation	-	-	-	-	-
9	1				- Describes the term vaccines - Outlines the types of vaccines		Vaccines - What it is - Types of vaccines - Examples of vaccines - antibodies	-	-	-	-	-
	2				-	Roles of individuals, families and communities - How to identify an immunize child - Child health card - Importance of a child health card to parents and health workers		- Guided discussion	- singing songs about immunisation	-	- Critical thinking	-
	3	**Human Body**	**The digestive system**	**Digestive system**	- explains what digestive system is; - What is digestion - Name the types of digestion	- Constructs correct sentences about digestion - Spells words correctly	Digestive system - What it is - Digestion - Types of digestion - Process involved in the use of food in animals - Parts of the digestive system - Functions of each part - Digestion in the mouth - Function of the gullet	- Demonstration - Discussion - Observation	- Drawing and labeling the different parts of the digestive system	-	-	-

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							- Digestion of food in the gullet					
	4				-	-	Digestion in the duodenum - Digestion in the ileum - End products of digestion - Adaptation of the ileum to its function			-	-	-
	5			**The digestive juice**	-	-	Enzymes - What it is - Characteristics of enzymes - Diseases and disorders of the digestive system - causes of constipation - ways of keeping the digestive system in good health	- Question and answer	- Defining different types of enzymes - Outlining diseases and disorders	-	- Care - Effective communication	- Integrated science bk5 pg 65
	6	**The Environment**	**Components of the environment**	**SOIL**	- defines terms related to soil - Mention types of soil - States the characteristics of different soil types - Identifies the use of each type of soil	- States the meaning of the given terms - Describes the characteristics of different types of soil - Makes sentences using the given terms	- Definition - Characteristics of soil types - Diagram showing arrangement of soil particles - Uses of each type of soil	- Question and answer - Explanation	- Drawing - Describing	- Different types of soil	- care - Effective communication	- Integrated primary 5 sci
10	1			**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	- Explanation - Guided discovery - Discussion	- Performing experiments	- soil	- Problem solving - Responsibility	- Agric for secondary

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	2			**Soil formation, drainage and capillarity**	- States ways through which soil is formed - performs an experiment to show soil drainage and soil capillarity	- Defines terms e.g weathering, decomposition, soil capillarity	- Soil formation ✓ Weathering ✓ decomposition - Soil drainage - Soil capillarity		-			- Baroque integrated scie
	3			**Soil erosion**	- defines soil erosion - states the causes of soil erosion - Explains the effects of soil erosion - Identifies methods of controlling soil erosion	- 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			**Soil fertility**	- Defines soil fertility - Points out ways of improving soil fertility - mentions the types of fertlizers - gives examples of fertilisers (natural) - explains the advantages and disadvantages of natural fertilisers	- gives explanation in correct sentences - writes sentences correctly	- Soil fertility - ways of improving soil fertility - examples of natural fertilizers - Advantages of natural fertilisers	- Question and answer - Explanation	- Describing	- soil	- Critical thinking - Problem solving - responsibility	-
	5			**Artificial fertility**	- Points out the examples of artificial fertilisers - Lists the advantages and disadvantages of artificial fertilisers	- Discusses the advantages and disadvantages of artificial fertilisers	- Examples of artificial fertilisers - Advantages and disadvantages of artificial fertilisers - Soil pollutants - Examples of soil pollutants	- Guided discovery	- Writing	- Artificial fertiliserse.g CAN, DAP		-

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				Soil pollutants	- Defines soil pollutants - Explains the effects of soil pollutants		- Effects of soil pollutants					
	6			**Soil exhaustion**	- Defines soil exhaustion - States the causes of soil exhaustion - identifies the methods of preventing soil exhaustion	- Gives definition in correct sentences	- Soil exhaustion - Causes of soil exhaustion - Methods of preventing soil exhaustion	- Discussion	-	-	-	-
11	1		**Crop growing**	**Types of crops**	- Outlines the types of crops. - describes the tuber crops - Outlines the types of tuber crops	- constructs sentences correctly - Spells words - Pronounces words	- Types of crops - Tuber crops - Types of tuber crops - Examples of tuber crops - Growing and caring for tuber crops - Propagation of tuber crops	- Drawing diagrams of tuber crops	- Tuber crops (real objects)	- Guided discussion - Observation - Group work - Brain storming	- Effective communication - Critical thinking - Concern - problem solving	-
	2				- Gives the common pests and diseases of tuber crops - Outlines the characteristic of common tuber crop pests - mentions the effects of pests and diseases to tuber crops	- constructs sentences correctly - Spells words - Pronounces words	- Common pests and diseases of tuber crops - Characteristics of common tuber crops - Effects of pests and diseases to tuber crops - Methods of controlling pests and diseases	- Outlines any three characteristics of common tuber crop pests	-			-
	3				- Gives examples of legume crops - Gives the characteristics of legume crops	- Pronounces words - constructs sentences correctly	- Leguminous crops - Examples of legume crops - Characteristics of legume crops - Cereal crops	- drawing legume crops	- Real objects of legume crops	-	- sharing	-

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					- mentions the examples of fruit crops - Gives the examples of vegetable crops	-Spells words correctly	- examples of cereals - fruit crops - vegetable crops					
	4			**Nursery bed**	- defines a nursery bed - Gives the advantages of a nursery bed - describes what transplanting is - Gives different crop growing practices	-Pronounces words -constructs sentences correctly -Spells words correctly	Nursery bed - Advantages of a nursery bed - crops grown in a nursery bed - How to care for crops in a nursery bed - Transplanting - crop growing practices	- setting up a nursery bed	- Real examples of crops grown in a nursery bed	- Group work - Guided discovery	- Co-operation - sharing - critical thinking - Responsibility	-
	5				- Gives the examples of common garden tools - mentions the uses of different garden tools - Gives ways of caring for the garden tools	-	- Garden tools - Examples of common garden tools - Uses of different garden tools - Caring for the garden tools	- Drawing different garden tools	- Real garden tools	- Brain storming - Guided discovery - Group work	- Problem solving	-
			Matter and energy	Matter and its states	- Definition of matter - Properties of matter - Identifies what causes changes in matter state. - Mention changes in matter states - The examples of matter - States of matter - Examples of matter in each state - Molecuels in each state of matter - Properties of each state of matter	- Describe matter and its characteristics - States of matter (solids, liquids and gases) - Stating examples of matter - Drawing arrangements in each state of matter - List characteristics of each state of matter	Definition of matter Properties of matter States of matter Examples of matter in each state States that make up matter Arrangement of molecules in each state Changes of states of matter Causes of changes of states of matter	Defining matter Naming different states of matter Experimenting, mixing and separating mixtures	water ash sand tins bottles	-	-	MK Integrated Science bk5 pg103 Comprehensive primary Science bk5 pg49

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

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					showing how heat travels in different materials	transfer in matter	Explaining conduction, convection and radiation					
			Matter and energy	Application of conduction, convection and radiation in our daily life	- Identifying the improtance of conduction, convection and radiation in daily life. - Observing parts of a vacuum flask. - Identifying the differences between conductors and insulators	Observes parts of a vaccuum flask	Importance of conduction, convection and radiation in everyday life. Operation of a vacuum flask Dangers of conduction Differences between insulators and conductors. Giving examples of insulators and conductors Application of insulators and conductors in our daily life Differences between heat absorbers and reflectors		Discussing the important of conduction, convection and radiation Grouping insulators and conductors of heat	Nails Cotton wool Wires Cork		Comprehensive Primary Science bk5 MK primary Science bk5 pg 105 - 109
				Forms of energy (temperature)	- Defines temperature - Relates temperature to heat - States diiference between heat and temperature - Explains the tyeps and	- Spells words correctly - Reads stories about heat and temperature - Write short stories on temperature	Definition of temperature Difference between heat and temperature Temperature scales Types of thermometer Identifying functions of parts of a clinical thermometer		Stating the difference between heat and temperature Observing they types of thermometers Drawing and labeling parts of a thermometer	A clinical thermometer A chart showing parts of a thermometer		Comprehensiving primary Scie bk5 pg77 – 80 Mk primary Scie bk 5 pg124-126

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					uses of thermometers - Converts degrees to different scales	- Draws and labels ,types of thermometer	Identifying functions of parts of a clinical thermometer Liquids in in thermometers Advantages and disadvantages of each. Conversion of temperature from one scale to another i.e. Centigrade to Fahrenheit and vice versa					
			Matter and energy		Defining what rusting and burning are. Explaining the disadvantages of rusting Describing ways of putting out fire	Define the terms combustion and rusting Spell the words correctly Drawing and observing experiment showing rusting and burning.	Definition of burning (combustion) Stating the condition necessary for burning Zones in a candle flame. By products given out. Experiments on burning. Ways of putting out fire. Definition of rusting. Conditions for rusting. Experiments on rusting. By-products given out. Disadvantages of rusting.		Discussing what burning is. Discussing the conditions for burning to take place. Drawing and labeling the zones in a burning candle.	A burning candle Glass Water Tines		Comprehensive primary Scie bk 5 pg83-85

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

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							Examples of leguminous crops Characteristics of leguminous crops Cereal crops Examples Characteristics fruit crops Vegetable crops A nursery bed Garden tools					
		The world of living things	**Bacteria and fungi**		Describes bacteria, where they are found and where they breed. Describes characteristics of bacteria. Discusses the ways preventing, controllign and treating bacterial diseases. Describes fungi as warmless and harmful organisms. Identifies dangers of fungi. Discuss ways of preventing and controlling bacteria and fungal diseases.	Describes bacteria/ fungi Acts a dialogue on useful and harmful bacteria. Reads words, sentences and stories about bacteria and fungi. Writes words, sentences and stories	Definition of bacteria. Habitat for bacteria Feeding Breeding (movement) <u>Types of bacteria</u> 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,		Defining the term bacterial, fungi. Identifying different modes of bacteria. Identifying the types of bacteria Stating the prevention and control of diseases caused by either fungi or bacteria	Microscopes Testing specimens Books for reference Environment		Comp pri sci pg 187

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						Sir William Harvey, Joseph Listeretetc					
		Managing changes in the environment	**Types of changes**		The learner; Identifies the types of changes in the environment Describes how changes take place in the environment. Identifies the characteristics of physical and chemical changes. Describes the examples of each type of change.	The learner; Names the types of changes. 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, examples 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 bk5
		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.		Listing the external parts of a goat. Discussing the ways of feeding goats and housing them.	A chart showing external parts of a goat.		Comp scie bkk MK integrated pri Sci bkk pg 69-78

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							Identifying the breeds of goats. Stating the gestation period of a goat. Feeding goats and housing them. Types of goats. Methods of grazing goats under each system.					
			Sheep		Describing uses of sheep	Naming external parts of a sheep	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		Drawing and labeling external parts of a sheep. Listing the exotic breeds of a sheep	A chart showing external parts of a sheep		Mk pri sch bk5 pg78-83 Comp pri sci bk5 pg36-45
			Housing and management of goats and sheep		Describing the qualities of a good house for a goat and a sheep	Mentioning the importance of proper housing of goats and sheep.	Stating how a house for a goat and a sheep should be made.		A chart showing a house of a sheep and that of a goat	Textbooks		-do-

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							Mentining the improtance of proper housing. Identifying the practices doen in management of goats and sheep.					
			Castration		Naming the 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.		Stating what castration is. Discussing the methods of castration. Explaining the advantages and disadvantages of castration.	A chart showing burdizzo		Mk pri sci bk 5 pg83 – 84
			Diseases and parasites of goats		Discussing causes, signs and symptoms Prevention and control of diseases in sheep and goats.	Naming diseases and parasites of sheep and goats.	Listing the diseases for goats and sheep. Stating signs and symptoms of goats and sheep diseases. Stating the causes of the mentioned diseases. Definition of parasites. Types of parasites that attack goats and sheep.		Listing diseases of goats and sheep. Discussing the signs and symptoms of goat diseases. Listing examples of parasites	-do-		-do-

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							Examples of parasites. Prevention and control of goats, 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.		Listing feeds for pigs.	Weeds used to feed pigs. A bottle		-do-

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							Stating the advantages of proper feeding of pigs. State the period of proper weaning of pigs. Identifying the methods of deworming piglets.		Stating the methods of deworming pigs.	A chart showing one deworming		
			Heat period		Discussing the signs of heat period	Writing sentences about gestation period and steaming up.	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		Identifying diseases and parasites of pigs	Writing signs and symptoms of pig diseases on a farm	Naming the diseases and parasites of pigs. Identifying the causes of pig diseases. Stating the signs and symptoms of pig diseases.		Listing the diseases and parasites of pigs. Discussing the signs and symptoms of pig diseases. Discussing ways of	Pupils text books		Comp pri sci bk5 pg 47-49 MK int pri sci bk 5 pg98 -100

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						Suggesting the mode of spread of each disease. Identifying their prevention, control and treatment.		controlling diseases and parasites.			
			Starting a piggery project		Describing factors to consider when starting a piggery project.	Naming 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
		The Human health	**Food and nutrition**		The learner; Explains what breastfeeding is, its advantages and disadvantages Explains what bottlefeeding is , its advantages and disadvantages	The learner Lists the food for different communities Recites poems and sings songs on breastfeeding Writes food diets for the vulnerable people.	1. Breastfeeding What it is Advantages and disadvantages to; The mother, the baby, the family 2. Bottle feeding What is it		Writing advantages and disadvantages of breastfeeding to the mother, baby and family. Explaining instances when bottle feeding is necessary.	Chalk board illustration		

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					Identifies vulnerable groups of people Explains traditional customs and their advantages and disadvatnages to the community	Explains some dishes for the vulnerable	Advantages and disadvantages to; The mother, the baby, the family 3. Vulnerable groups of people Who they are Weaning babies, the sick, elderly, convalescents, breastfeeding mothers and their breastfed babies, pregnant mothers and their unborn babies 4. Food for the vulnerable Soft drinks, soft foods, balanced diet 5. Traditional customs and food taboos in communities What taboos are Examples Effects of food taboos on nutrition 1. Food consumption		Listing different vulnerable groups of people.			

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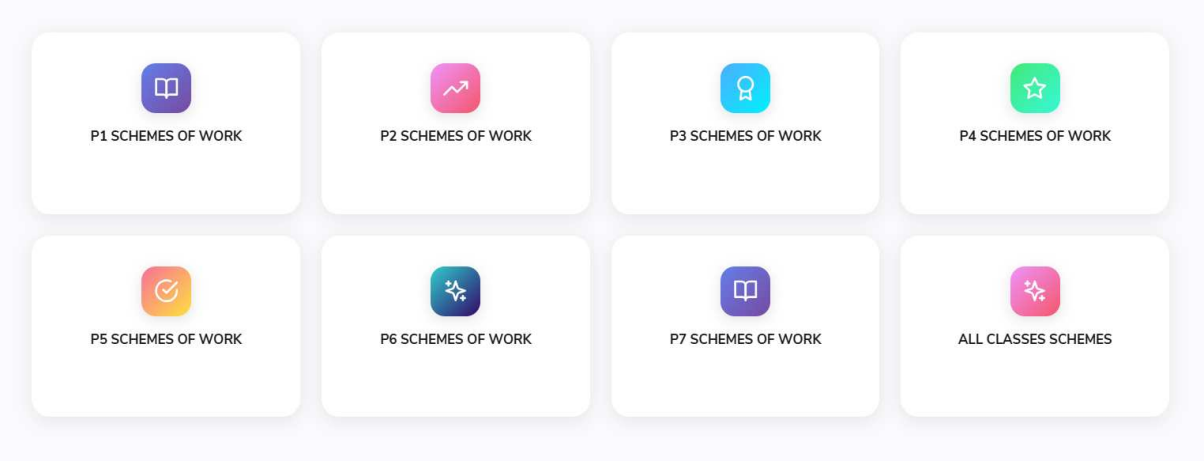
							patterns in the community Staple foods of different communities Other foods of different communities					
			Primary Health Care (PHC)		The learner; Describes what PHC is, its elements and principles. Demonstrates activities of PHC in promotion of community hygiene Explains the responsibilities of individuals, families and communities in health promotion	The learner Describes what PHC is, its elements and principles. Listens to stories about PHC activities in the community. Writes words, sentences and stories about PHC activiteis in the community.	1. Primary Health Care What it is Elements and principles of PHC 2. PHC activities in promotion of community hygiene e.g. rubbish disposal Protecting water sources 3. Responsibility of individuals, families and the community in health promotion. 4. Suitable lifestyles and good health practices 5. People with special needs in community e.g. the sick, the elderly, the		Describing PHC, its elements and principles. Practicing activities of PHC in the community Demonstrating the responsibilities of individuals, families and community in health promotion Naming people with special needs in the community. Discussing how to care for people with special needs	Chalkboard illustration Reference books The local environment		

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							disabled, the young. 6. Care for people with special needs e.g. protection, medication					

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