



MILESTONE EDUCATIONAL COMPANIES – KAMPALA

SCIENCE SCHEME FOR PRIMARY SIX TERM II 2025

WK	PD	THEME	SUB-TOPIC	SUBJECT COMPETENCES	LANGUAGE COMPETENCES	CONTENT	METHODS	LIFE SKILL	L AIDS	Suggested activities	REF
1	2	The world of living things	Classification of plants	- The learner classifies plant in to flowering and non flowering plants names parts of a flowering	The learner names classes of plants -Describes flowering plants	- Flowering plants - Defines flowering plants are plants which bear flowers and reproduce by means of seeds. - Structure of a flowering plant - -Leaves , flower , stems , fruits, seeds, roots function of each part.	Discussion Observation	Effective communication Care love	flowering plant. -A chart showing a flowering plant	- Observing different flowering plants - Drawing and naming parts of a plant - States functions of each part	Fountain integrated SciBk 6 Pg 162
2	1			- Learners draws different types of roots - Gives examples of plants with such roots	Learners outlines functions of roots to a plant -Names different types of roots	Roots - Functions of roofs to plants uses of roots to animals Types of roots - Primary roots - Tap roots - Fibrous roots - Secondary roots - Adventitious roots - Claspig roots	- Guided discussion - Question and answer - observation	- problem solving - critical thinking - care	-Different roots Charts showin g roots	- Sorting samples of roots - Drawing roots - Naming	

						- Prop roots - Buttress roots - Storage root					
2	2	The world of living things	Classification of plants (stem)	- Learner classifies plants into groups of flowering and non flowering plants - Functions of stems	- The learner names the functions of stems - Spells scientific words correctly - acts out a dialogue about types of stems.	- Stems - Functions of stems - Types of stems - Upright stems (erect) stems - Underground stems - Stem tubers - Rhizomes - Bulbs - Corms - Examples of each	- Guided discovery - Brain storming	- Problem solving - Creative thinking	- Onions - Ginger - Different stems	- Drawing stems - Naming stem	- Fountain integrated SciBkPg 166
2	3		Leaves	- The learner names the parts of a leaf - Describes the functions of leaves - Uses - Characteristics to prepare simple classification of leaves	- The learner writes words about parts of leaves - Draws and labels parts of a leaf. - The learner writes words about parts of leaves - Reads words and sentences , stories about leaves	- Leaves - Parts of a leaf - Functions of leaves - Leaf venation - Net work leaf venation - Parallel leaf venation - Types of leaves - Compound leaves - Simple leaves - Examples of two types of leaves	- Guided discovery - Question and answer	- Effective communication - Fluency -	- Real leaves - Chart showing leaves	- Drawing leaves - Naming leaves - Collecting leaves from environment	Fountain integrated sci BK 6 Pg 168 - 171
2	4		Photosynthesis	- The learner - Describes photosynthesis	- Writes description of photosynthesis	- Photosynthesis - Dfn: - Requirements	- Conducted class discussion	- Appreciation	- Iodine solution - Cassava	- Carry out experiment	Fountain integrated

				- Names the conditions and raw materials for plant to carry out photosynthesis	- Spells and writes words about photosynthesis	- Raw materials - Conditions - By products - How leaves are adapted to photosynthesis - Testing for starch		- Responsibility - care	- Potato leaves	- to test for starch	
2	5		Transpiration	- The learner - Describes transpiration - Name the importance of transpiration to plants	- The learner - Reads words, sentences and stories about transpiration	- Transpiration - Dfn: - Importance of transpiration - Factors which affects the rate of transpiration - Temperature - Water supply - Humidity - Speed of wind - Surface area of a leaf.	- Guided discussion - experimentation	- critical thinking - love	- Polythene paper - Rubber band - Plant	- Carrying out an experiment to test transpiration in the plants environment	
2	6		Flowers	- Learner draws the flower - They name the parts of the flower	- Dfn - Pistil - Stamen - Ovules - Corolla	- Flowers - Dfn - Structure of a flower - Reproductive parts of a flower	- Guided discovery - Question and answer	- Problem solving - care	- A chart showing a flower - A flower	- Drawing - Naming parts of a flower	- Fountain integrated Sci

					- Calyx	Uses of flowers to - Man - Plants					
3	1		Pollination and fertilization	- The learner - Defines the term pollination - Lists down agents of pollination mentions types of pollination - Explains the characteristics of - Wind and insect pollinated flower - Describes the process of fertilisation	- The learner - Defines - Pollination - Describes agents of pollination - Reads words and stories about pollination	- Pollination and fertilization - Definition of pollination - Agent of pollination - Wind - Insects - Birds - Water - Types of pollination - Self pollination - Definition - Characteristics of cross pollinated flowers - Characteristics of wind pollinated flowers. - Fertilization	- Guided discussion - Guided discovery - Question and answer	- Critical thinking - Decision making - Love - care	- Flowers	- Describes - Characteristics of wind and insect pollinated flowers - Uses characteristics to classify different types of pollination - Audio visual presentation	Tropical Bio Intro to Bio MK SciBk 6
3	2		Fruits	- The learner - Defines a fruits	- The learner names types of fruits	- Definition - Characteristics of fruits - Types of fruits	- Explanation - Observation	- Critical thinking - Love care	- Fruits and seeds	- Drawing fruits and naming different	- Comp scibk 6

				- Mentions types of fruits - Gives and identify types of fruits	- Characteristics of each type	- Succulent fruits	- Brain storming		- Grounding fruits	- parts classifying - Drupes - Dehiscent fruits - Characteristics of each types and example importance of fruits	
3	3		Seed dispersal	- The learner - Describes seed dispersal - Identifies agents of dispersal - Names the characteristics of seeds dispersed by various	- The learner - Reads words , sentences and stories about seed dispersal - States the ways seeds are dispersed - State the characteristics of the various seeds	- Seed dispersal Dfn - Seed dispersal - Importance of seed dispersal eg. - Water - Wind - Animals - Self dispersal - Characteristics of seeds dispersed by - Water - Wind - Animals - Self dispersal	- Guided discovery - Question and answer	- Effective communication - Critical thinking - care	- Seeds - Charts - Text books	- Observe different plants in the environment - Carrying out a simple study to identify different seeds - Describing methods of seed dispersal	Understanding intscibk 6
3	4		Plant propagation	- The learner describes plants propagation	- The learner writes words about propagation - Reads words sentences and	- Meaning of propagation - Methods of plants propagation - By seeds	- Observation - Discussion - Question and answer	- Critical thinking problem solving	- Stems - Bulbs - Seeds - Old tins	- Observe different seeds - Carrying out	Fountain intergrated Sci Bk

				- Identifies methods of plant propagation - Participates in propagation of some plants	stories about propagation	- By vegetative propagation seeds - A seed is a mature ovule - Groups of seeds - Monocotyledonous seeds - Monocotyledonous			- Growing plants	experiment planting seeds - Identifying characteristics of monocots and dicots	
3	5		Germination	- The learner describes germination - Names the requirements of seed germination - Identify types of seed germination	- The learner writes simple words about germination - Reads words sentences and stories about seed germination - Draw and labels different methods of plant propagation	Germination Dfn - Types of germination - Epigeal germination - Hypogeal - Epigeal germination - Meaning of epigeal seeds which under goepigeal. - Hypogeal - Examples of seeds which undergo hypogeal germination conditions for germination. Moisture , oxygen , warmth - Differentiate monocots and dicots	- Observation - Discussion -	- Critical thinking - Effect communication	- Germinating seeds	- Planting different seeds and observing them - Caring for the plants	- Comp intscibk 6 .

3	6		Tropism	- Defines tropism - Identify types of tropism - Draws diagrams to show experiment on tropism	- Spells - Write - Pronounces - Use words in sentences correctly	Tropism Is the response of a plant towards a given stimulus. Types of tropism - Photo tropism - Geo tropism - Hydro tropism - Thigmo tropism - Chemo tropism	- Explanation - Brain storming	- Problem solving - care	- audio visual -	- Defining each type of tropism	- Comp intscibk 6
4	1		Propagation	- Describes plant propagation defines propagation correctly - Identify types of propagation	- Writes simples description of some common plants	- Types of vegetative propagation - Natural - Artificial - Natural / vegetative propagation - Uses of rhizomes leaves , seeds , corn , stem, tubers , suckers methods of artificial vegetative propagation - Stem cutting grafting , layering - Budding marcotting - Advantages of vegetative propagation - Importance of plants	- Guided discussion - Guided discovery	- Critical thinking - Effective communication - Love - Care	- Seeds - Leaves - Stems - Suckers etc	- Planting various crops	- Comp intscibk 6

4	2		Non – flowering plants	- The learner names examples of non – flowering plants - Uses characteristics to prepare simple classification of non – flowering plants	- Describe non flowering plants - Read words about non – flowering plants - Draw and label non – flowering plants	- Dfn of non – flowering plants - Spore producing plants - Ferns , mosses , liver worts - Reasons why regarded as plants - Have simple leaves , stems and roots - Structure of each - Conifers produced by means of seeds by do not bear flowers - Examples - Pine , cedarfir, podo , ginkgo - Economic uses of conifers and general uses	- Explanation - Discussion -	- Critical thinking - Effective communication	- Mosses - Ferns	- Discussing about non – flowering plants - Observing non – flowering plants - Discussing example of non – flowering plants	Baroque intscibk 6
4	3	Sci in Human activities and occupation	Keeping cattle	- The learner - Identifies the different reasons for keeping cattle - Identifies the different breeds of cattle - Names the characteristics of each breed	- The learner names the reasons for keeping cattle - Names the different breeds of cattle - Acts out advantages about and disadvantages of	- Cattle - Dfn - Reasons for keeping cattle - External features of a cow - Breeds of cattle - Local / indigenous cattle - Exotic breed - Characteristics of each breed differences	- Conducted class discussion - Guided discovery - Question and answer	- Critical thinking - Effective communication - Love - Care	- Real cattle	- Observe different types of cattle types of cattle on a farm - Discussing different breeds of cattle - Attending operation	Comp scibk 6 - Baroque intscibk 6

				- Identifies the difference between the different breeds - Mention the advantages and disadvantages of each breed	exotic and local breeds.	between breeds of cattle (Local and exotic) - Advantages of local breeds over breeds. - Advantages of exotic breeds over local breeds				of cattle of cattle on a farm names , care feeding and their diseases	
4	4		Types of cattle	- The learner identifies the different breeds of cattle - Identifies different breeds of cattle	- The learners acts out adialogue about external features of a bull and a cow	- Types of cattle - Dairy cattle - Beef cattle - Dual purpose cattle - Work type of cattle characteristics , shape and example of each breed - Difference between dairy and beef cattle	- Guided discovery - Brain storming	- Problem solving	- Real cattle - Charts showing cattle	- Drawing different types / shapes of cattle	- Comp intscibk 6
4	5		Reproduction in cattle	- The learner - Reads words sentences and stories about mating , insemination , artificial insemination	- The reproductive organs - a)Female b) Male reproductive organ. Parts and functions - Reproduction in cattle - Heat in cattle - Mating in cattle.	- Naming different parts of the reproductive system in cattle	- Discussion - Explanation - Question and answer -	- Critical thinking - Problem solving - Love - care	- chart of the reproductive system s of cattle	- Charts - Text books	- Comp intscibk 6

					a)Pasture mating b)Hand mating - Insemination Advantages and disadvantages of each type of insemination						
4	6		Calf management	- Learner - States different ways of animal , identification	- Reads words sentences and stories about mating gestation period and calving in cattle.	- Calf management - Feeding a) Colostrums and its advantages b) Farm practices eg numbering , dehorning , disbudding , castration , deworming , spraying , dipping and removal of extra teats	- Conducted class discussion	- Effective communication	- A farm (real life situation)	- Discussing ways of identifying animals	- Comp scibk 6
4	7		Breeding in cattle	- Gives examples of breeds of cattle	- Dfn - Different types of breeding	Breeding in cattle Types of breeding - Inbreeding - Cross breeding - Out breeding - Line breeding	- Explanation - Guided discovery	- Problem solving	- A cattle farm	- Stating example of breeds	- do

5	1		Cattle management	List different systems of grazing cattle	- Acts a dialogue about systems of grazing cattle	- Cattle management (cave) - Feeding - a)Types of feeds b) Systems of grazing cattle - c)Tettering - d)Strip grazing e) Herding (free range) f) Digestive system of a cow	- Conducted class discussion - Guided discovery - Question and answer	- Critical thinking - Effective communication - Love - Care	- A chart showing the digestive system of a cow	- Drawing the digestive system of a cow	Understanding intscibk 6
	2		Cattle management	- Housing and fencing in cattle	- The learner - Reads words - Housing - Fencing - Kraal - Byer -	- Housing a) Importantce of housing cattle - b)Types of cattle houses. Fence - Importance of fencing - b)Types of fences	- Discussion - Brain stormiest - Guided discovery	- Effective communication - Fluency - Care -	- A farm	- Observing different milking process - Listing types of fences , stating importance s of housing cattle	Fountain
	3		Cattle produces	- The learner - States methods of pursing cattle products (Milk , meat, hides)	- The learner - Acts out a dialogue on how milking is done	- Milk and milk products - Measuring of milking - Methods of milking - a)Handing milking	- Guided discussion - Guided discovery	- Critical thinking - Problem solving - Love -	- Real milk produ cts	- Listing cattle products - Stating methods of preservatio	Comp bk 6

						b)Machine milking preservation of milk products importance of lacto meter and strip cup Other cattle products - Beef – cow during and urine - Horns blood hooves - Preservation of beef - Preparation of hides - Wet - salting - Suspension drying - Marketing cattle products	Question and answer			n of cattel products	
4 & 5			Cattle parasites and diseases	- Identify and name the different diseases of cattle. - Describes the causes signs and symptoms cattle diseases - Mention the prevention control and treatment of the cattle diseases	- Names the diseases of cattle according to causes - Acts out a dialogue about cattle diseases - Spell the diseases of cattle and write them correctly	- Cattle diseases according to their causes (organisms) a)Bacterial diseases b) Viral diseases signs of sickness in animals. - Transmission - Signs of good health in animals - Cattle diseases a)Protozoa diseases eg East coast fever (ECF) - Anaplasmosis - Heart water - Trypanosomiasis	- Conducted class discussion - Explanation - Question and answer	- Effective communic ation - Problem solving - Care - responsibil ity	- Audio visual presenta tion on cattle parasite s	- Preparing a visit to a farm to write up on cattle diseases. - Discussing ways of stating alive stock farm - Carrying out activities which care and protect	- Baroque intsci

						Signs of the above and diseases - Symptoms of diseases prevention , control and treatment b) Bacterial diseases - Anthrax - Brucellosis - Calf scour etc				domestic animal	
	6		Cattle keeping	- Identify the cattle diseases caused by virus - Spell and write the diseases - Name the cattle diseases caused by parasites. - Identify and state ways of control	- Reads words stories and sentences about cattle diseases - Name and correctly spell the cattle diseases - Write words about cattle diseases - Act out a dialogue about cattle diseases	- Viral diseases - Foot and mouth disease - Rinder pest other cattle diseases - Milk fever bloat - Mode of transmission Signs of the disease - Symptoms of the disease - Prevention and control of each disease Cattle parasites - Meaning of cattle parasites - Dangers of cattle Types of parasites - Ways of controlling different parasites - Farm records	- Guided discussion - Brain stormiest - Guided discovery	- Critical thinking - Problem solving - Care -	- Real cattle	- Visiting a farm and identifying the sick animals	- Comp intsci

						- Meaning , importance and types of farm records					
7	1		Cattle keeping	- The learner describes the records kept on a farm - Identify the importance of the farm records	- Name different records kept on a farm	- Types of records - Health , labour, records, marking records, field records, filed records, inventories, dairy recorded - Meaning of each of the above records. - Reasons for keeping such a record on alive stock	- Conducted class discussion - Brain storming	- Problem solving - Decision making -	- Charts - pupils text books	- Stating the importance of various records	- Comp scibk 6
	2		Name the requirements for starting live stock farm	- Reads and spells - Capital - Labour - Machinery -	- Requirements of starting alive stock farm - Factors to consider before starting alive stock farm - Land , labour , capital ready market , management t , machinery etc - Meaning of each and importance	- Discussion on ways of starting a farm	- Guided discussion - Explanation - Question and answer -	- Critical thinking - Effective communication	- Out of class lesson	- Stating factors considered when starting a farm	Comp intscibk 6

					- How some of the above can be obtained						
3 & 4	The environment	Resources in the environment	- The learner identifies resources from living and non living things - Lists different types of rocks	- The learner Names resources - Describes living and non livingthings as resources	- Resources - Dfn - Ways of getting resources - Resources from non – living things such as soil, water, air and wind, sun, rock and minerals. - Types of rocks. - Igneous rocks - Metamorphic rocks - Sedimentary rocks - Fossils and uses - Importance of rocks - Alloys and reasons for making them - Examples of alloys - Manganese steel - Nick steel - Stain less steel - Cabalt steel	- Discussion - Explanation - Question and answer	- Critical thinking - Effective communic ation - Love - Appreciati on -	- rocks	- Observing things around us which are useful resource - Discussing ways of proper harvesting of resource	- Understanding intsci - Comp scibk 6	
5		Mentions resources got from plants and	- Names different fuels	- Fuels - Charcoal , fire wood, oil coal , resource from living things	- Discussing uses of different fuels	- Guided discovery - Guided discussion - Question and answer	- Critical thinking - Problem solving - Care -	- Charc oal - Firew ood - Oil	- Stating the uses of different fuels	- Comp scibk 6	

					- Plants eg medicine , food , fibres - Animals eg wool , silk , food , honey , horns etc - Animals also used to do work eg carrying ploughing transport						
	6		Conservation of resources	- The learner participates in different ways of conserving environment	- Writes ways of caring from animal resources	- Conservation meaning of conservation - Reasons for conservation - Once over used resources become extinct or endangered - For future generations to see - Protect the environment - Non renewable resources by using 5R's.	- Guided discussion - Brain storming	- Effective communication - Problem solving - care	-	- Discussing ways of caring and conserving resource - Practical preparing campaign message for sustainable use of resource	Comp scibk 6
8	1		Conservation of resources	- States the ways of conserving resources	- Reads spells - Recycle - Reject - conservation	- Reducing , rejecting , recycling - B) conservation of renewable resources - Replacing the used ones	- Conducted class discussion - Question and answer	- Critical thinking - Conservation - care	- polythene - plastic tins	- stating ways of conserving resources	Comp scibk 6

						- Reserving natural vegetation - Use of wind lie conservation					
	2		Harvesting of resources	- Outlines ways of controlling degradation of resources	- Gives different methods of harvesting resources	- Harvesting of resources - Meaning of the term harvesting - Proper harvesting and using of resources - Importance of harvesting	- Guided discussion	- Critical thinking	-	- Find out from community how people use the available resource	Comp scibk 6
	3		The human body	- Respiratory system	- The learner - Names respiratory organs	- Respiratory system - Meaning of respiration - Products of respiration - Respiratory organs - Breathing - Types of breathing - Respiratory system.	- Discussion - Explanation - Question and answer	- Self-awareness - Critical thinking - love	- a chart of the respiratory tract	- Observing models of respiratory organs - Carrying out an experiment to illustrate breathing in and out. -	Baroque intscibk 6
	4		Respiratory tract	- Demonstrates an experiment on human respiration	- Listens to stories about breathing and respiratory	- Functions of each part of the system - Nose - Epiglottis - Trachea - Bronchus - Lungs - Alveoli (Air Sacs)	- Conducted class discussion - Question and answer	- Articulation - Self-awareness - love	- Real lungs of a cow - Audio visual on Lungs	- Naming and giving functions of parts of the respiratory tract	Mk intscibk 6

						- Adaptabilities of air sacs					
	5		Diseases and disorders of the respiratory system	- Identities diseases and disorders of respiratory system	- Reads and spells - Pertussis - Diphtheria - Tuberculosis - influenza	- Diseases of respiratory system infectious respiratory diseases - Tuberculosis - Influenza - Diphtheria - Pneumonia - Whooping cough - Causes of each of the above disease - Prevention and control of each disease	- Conducted class discussion - Question and answer	- Critical thinking - Problem solving	- Real lungs - Chart showing lungs	- Listing diseases of the respiratory system	- Mk intscibk 6
	6	The human body	Diseases of the respiratory system	- Name the non-infectious diseases - Identify the causes of respiratory diseases - Describes the conditions that lead to noninfectious respiratory diseases	- Spells and writes words about non infectious diseases - Reading words, stories and sentences about noninfectious respiratory diseases	- Non – infectious respiratory diseases. - Bronchitis - Emphysema - Asthma - Lung cancer - Conditions that worsen the above diseases - Disorders of the respiratory system - Choking - Ways of keeping the system in a healthy conditions	- Guided discussion - Explanation - Brain storming	- Effective communication - Self-awareness - Problem solving - Care	- Text book teaching	- Observing model of the respiratory organs - Carrying out experiment to illustrate breathing and out in relation to food and oxygen	Baroque intscibk 6

						- Regular physical body exercises - Routine medical check – ups - Avoiding smoking				- Discussing diseases disorders - Listening talks from resource persons	
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