## BLUE PRINT FOR INTEGRATED SCIENCE LOWER PRIMARY

CLASS	THEME	TOPIC/SUB THEME	COMPETENCE	SECTION A		SECTION B			
	THEME  QUESTION LEVELS  The human body and health  The human body  Uses of different external body parts Our senses of the body  The human health  The human body  The human body  The human health  Things used to clean the body  Personal hygiene Importance of keeping the body clean Common diseases Things that spread common diseases Ways of keeping food safe.		K	C	A	K	C	A	
Primaı	body and		External parts of the body						
ry o			Uses of different external body parts						
one			Our senses of the body						
an									
d t									
wo		health	• 0						
			Ways of keeping food safe.						
	Weather	Weather	Elements of weather or weather makers						
	changes								
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			Dangers or effects of different weather						
			conditions						

Measures	Seasons	Types of seasons		
		Activities done during dry season		
		Activities done during wet season		_
	Measuring	Things measured in kilograms		
	quantities	Things measured in litres		
		Things measured in metres		
Accidents	Common	Common accidents at home		
and safety	accidents at	Dangerous objects at home		
	home, school	Causes of accidents at home		
	and on the way	Ways of preventing accidents at home		
		Causes of accidents on the way		
		Effects of accidents		
		Road signs		
	First aid	Meaning of a casualty		_
		Meaning of first aid		
		Reasons for giving first aid		
		Ways of giving first aid		
		Things found in a first aid box		
		Places where a first aid kit can be found		
Food and	Common food at	Meaning of food		
nutrition	home and in our	Sources of food and places where we get		
	community	food		
		Classes of food and balanced diet.		_
		Ways of keeping food safe or clean		 _
		Importance of keeping food safe or clean		

		Uses food in the body (reasons for eating food)			
Things we make	Things we make home school and	Materials used to make different things at home and at school			
таке	home school and				
	nome	Sources of materials used to make things at home and school			
		Things we make from banana fibres			
		Things we make from plastics			
		Things we make from wood			
		Things we make from metals			
		Things we make from clay			
		Uses of things we make at home.			
Our	Our	Meaning of environment			
environment	J	Components of the environment			
	Living things	Meaning of living things			
		Examples of living things			
		Characteristics of living things			
	Non-living	Meaning of non-living things			
	things	Examples of non-living things			
		Characteristics of living things			
		Characteristics of fiving timigs			

BLUE PRINT F	FOR INTEGRATED SCIENCE	Page 4		
Animals in our	Domestic animals (meaning)			
environment	Examples of domestic animals			
	Uses of domestic animals			
	Different products got from animals			
	Wild animals (meaning)			
	Examples of wild animals			
	Dangers of wild animals			
	Uses of wild animals			
	Animals and their young ones			
	Animals and their homes			
	Animals and their sounds			
	Animals and their movement			
	Reasons why animals move			
	Animals and their weapons			
	Ways of caring for the environment			
Birds in our	Domestic birds (meaning)			
environment	Examples of domestic birds			
	Wild birds (meaning)			
	Examples of wild birds			
Common insects	Common insects in our environment			
	Useful and harmful insects			
	Parts of an insect and their uses			
	Characteristics of insects			
	Uses of common insects in the			
	environment			

		Common plants	Examples of common plants in the environment			
			Parts of a plant			
			Uses of common plants in the			+ + -
			environment			
P	Our	Soil	Meaning of soil			
Primary	environment		Components of soil			
ıar	in our sub		Types of soil			
	county		Uses of clay soil			
three			Uses of sand soil			
ее			Uses of loam soil			
			Soil profile			
			General uses of soil to people, plants and			
			other animals			
		- CI				
		Changes	Examples of natural changes in the			
			environment		<u> </u>	
			Examples of man-made changes in the			
			environment	+		
			Effects of changes in the environment	+	<del>                                     </del>	+
			Ways of managing changes in the environment			
			environment			
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Environment	Air and the sun	Meaning of air		
and Weather		Components of air and their percentage		
in our sub	Air	compositions in the atmosphere		
county		Properties of air and their application in		
		life		
		Importance of air		
		Oxygen as a condition for burning		
		(experiment)		
		Dangers of strong wind		
	The sun	Importance of the sun		
		Why plants need sunlight (experiment)		
		Dangers of the sun		
		Sources of water		
	Managing water	The water cycle		
		Ways of harvesting water		
		Maintenance of water sources		
		Types of clouds		
		Effects of clouds in the environment		
		Measuring rainfall		
		Importance of rain		
		Dangers of too much rain on soil, plants		
		and animals		

Living	Living things	Meaning of living things			
things	(animals)	Types of livings			_
(animals in		Characteristics of living things			
our sub		Classes of living things			_
county		Types of animals (domestic and wild			_
		animals)			_
		Habitats of domestic animals			_
				$T_{\perp}$	_
	Birds and	Domestic and wild birds			_
	insects	Characteristics of birds			_
		Reasons for keeping domestic birds			_
		Habitats for birds			_
		Reasons why bats are not regarded as		T	
		birds (comparison)			_
					_
		Examples of useful and harmful insects			
		Uses of insects			_
		Dangers of some insects			
		Characteristics of insects			
		Habitats of different insects			_
		Insects with wings and wingless insects			_
		Comparison of spiders with insects			_
					_
	Care for	Caring for domestic birds and animals			_
	animals, birds	Caring for wild birds and animals			_
	and insects	Caring for insects	<u> </u>		_
			<u> </u>	 	_
		Examples of plants in our environment			_

Living	Plants and their	Characteristics of plants		
things	habitats	Habitats of different plants (soil, water,		
(plants in		wetlands and rocky and dry areas.		
our sub		Planting crops on different types of soil		
county)				
	Parts of a	Structure of a flowering plant		
	flowering plant	Parts of a flowering plant and their uses		
		Uses of different plants people and other		
		animals		
		Dangers of some plants to people and		
		other animals		
		Experiment to observe the stages of plant		
		growth (seed germination)		
	Crop growing	Ways of preparing the land for crop		
	practices	growing		
		Methods of planting crops		
		Caring for crops (weeding, thinning,		
		watering, pruning, spraying, harvesting,		
		drying, storing etc.		
		Crop rotation		
		Garden tools and their uses		
		Ways of caring for garden tools		

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Health in	Vectors and	Meaning of vectors		
our sub	diseases	Examples of common vectors		
county		Characteristics of vectors		
		Life cycles of vectors (housefly, mosquitoes		
		and cockroaches		
	Diseases spread	Examples of vector borne diseases		
	by vectors	Ways through which vectors spread	T	
		diseases (the 4Fs chain, bitig etc.		
		Ways of controlling and preventing		
		vectors		
	HIV and AIDS	Meaning of HIV and AIDS		
		Ways through which HIV spreads		
		Effects of AIDS		
		Ways of controlling or preventing the		
		spread of AIDS		
		PIASCY messages (what they are)		
		Examples of PIASCY messages		
		Importance of PIASCY messages.		
				_
Energy in	Sources of	Meaning of energy		
our sob	energy	Examples of forms of energy		
county		Natural sources of energy		_
		Artificial sources of energy		
		Uses of different forms and sources of		
		energy		

Saving energy    Ways of saving energy in our sub county   Reasons for saving energy	BLUE PRINT	FOR INTEGRATED SCIENCE Page 10			
Dangers of energy Dangers of different forms and sources of energy energy	Saving energy	Ways of saving energy in our sub county			
Dangers of Dangers of different forms and sources of energy energy					
energy energy					
	Dangers of	Dangers of different forms and sources of			
Ways of avoiding dangers of energy	energy				
		Ways of avoiding dangers of energy			

## INTEGRATED SCIENCE BLUE PRINT FOR UPPER PRIMARY

CLASS 1	THEME 1	TOPIC	COMPETENCES	QUESTION LEVEL					ı
				SE	CTIC	N A	SE	CTIO	N B
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	1. The world	1. Plant life							
P.4	of living		Identifies common flowering plants						
	things		Mentions the external parts of flowering						
			plant.						
			Discusses the uses of different parts of a						
			flowering plant to a plant.						
			States the uses of plants to people						
			Draws and labels the parts of a seed						
			Distinguishes a seed from a grain						
			Defines seed germination						
			Investigates the conditions necessary for						
			seed germination						
			Identifies the types of germination						
			Explains seed viability and dormancy						
			Identifies the processes that occur in						
			leaves						
			Defines photosynthesis						
			States the raw materials and conditions						
			necessary for photosynthesis and their						
			roles.						

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	States the importance of photosynthesis to		
	plants and environment.		
	Draws and names the parts of a flower		
	Describes the uses of different parts of a		
	flower		
	Describes the word pollination		
	Identifies the agents of pollination		
	Describes the types of pollination		
	Explains the changes that occur in a		
	flower after fertilization.		
	Explains the meaning of transpiration		
	Describes the factors that affect the rate		
	of transpiration		
	States the ways plants reduce the rate of		
	transpiration		
	Explains the importance of transpiration		
	to plants and environment		
	States the dangers of transpiration to		
	plants		
	Defines tropisms		
	Identifies the examples of tropisms and		
	their stimuli		

		Suggests the ways of controlling and	
		preventing common parasites and	
		diseases of rabbits.	
		Demonstrates skills of keeping rabbits	
P.5	4. Bacteria and	Tells the meaning of bacteria	
	fungi	Identifies places where are commonly	
		found and breed from	
		Identifies the different shapes of bacteria	
		Describes the nature of bacteria (useful	
		and harmful bacteria)	
		States the uses of useful bacteria	
		Explains the dangers of bacteria	
		Names the diseases caused by bacteria in	
		plants and animals, how they spread and	
		controlled or prevented	
		Describes from:	
		Describes fungi	
		Identifies the examples of useful and harmful fungi	
		States the uses and dangers of different	
		fungi in the environment	
		Identifies fungal diseases in plants and	
		animals	
		State the ways of preventing and	
		controlling fungal diseases	
		States the differences between bacteria	
		and fungi	

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P.6	5. Classification	Identifies the features or characteristics		
0. 1	of animals	used to classify animals		
	or animals	Names the groups of vertebrates or		
		classifies vertebrates (mammals, birds,		
		fish, amphibians and reptiles)		
		Describes the characteristics of different		
		groups of vertebrates		
		Describes modes of reproduction, living		
		and feeding of different vertebrates		
		Classifies invertebrates (molluscs,		
		arthropods and worms)		
		Describes different characteristics of		
		different groups of invertebrates  Montions the uses and dengers of		
		Mentions the uses and dangers of different invertebrates in the		
		environment.		
		States the ways of caring for animals in the environment		
		the environment		
	6. Classification	Classifies plants into flowering and non-		
	of plants	flowering plants		
	or plants	Names the examples of flowering and non-		
		flowering plants		
		Uses characteristics to prepare a simple		
		classification of common plants		
		Describes plant propagation		

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1	<u></u>		Explains the methods of natural methods		
1	'		of vegetative propagation		
	'		Explains the artificial methods of		
	'		vegetative propagation		
	'		Gives the advantages and disadvantages		
	'		of natural and artificial methods of		
	'		vegetative propagation		
	'		Draws and labels the non-flowering plants		
	'		correctly		
	'		Defines seed dispersal		
	'		Identifies the agents of seed dispersal		
1	'		Explains the characteristics of seeds and		
	'		fruits dispersed by water, animals and		
	'		wind.		
	'		States the importance and disadvantages		
	'		of seed dispersal in the environment		
	'		States the economic values of plants to		
,	'		people		
	<u> </u>				
P.4	2. The	7. Weather	Explains the term weather		
,	environment	changes around	Describes the changes in weather		
,	'	us	throughout the year		
.	'		Identifies the elements of weather		
.	'		States the conditions or types of weather		
.	'		Identifies weather instruments and their		
.	'		uses		
.	'		Explains how to care for different weather		
.i	'		instruments		

	BLUE PRINT F	FOR INTEGRATED SCIENCE Page 17			
		Makes accurate measurements of rainfall			
1		Makes a simple weather chart			
		Describes the water cycle			
		_			
P.5	8. Components	Defines soil			
	of the	Describes the methods of soil formation			
	environment	States the importance of soil			
	(soil)	Carries out experiments to show the			ı
		components of soil			
		Describes the types of soil			
		Discusses drainage, capillarity and			1
		retention of different types of soil			
		Describes soil profile			
		Compares soil layers with the types of soil			
		Defines soil erosion			
		States the causes of soil erosion			
		Identifies the types of soil erosion			
		Names the agents of soil erosion			
		Explains the ways of controlling and			
		preventing soil erosion in different areas			
		Identifies the harmful materials on soil			
		Discusses the effects of the harmful			
		materials on soil			
		States the ways of managing harmful			ı
		materials on soil to ensure it productivity	_		
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		Identifies the methods of conserving soil	
	'	Defines soil fertility	
		Gives the ways of improving soil fertility	
		Identifies the types of fertilizers (natural	
	'	and artificial fertilizers)	
		States the advantages and disadvantages	
	'	of natural and artificial fertilizers	
P.6	9. Resources in	Explains the meaning of resources	
	the environment		
	'	(plants and animals)	
		Identifies resources from non-living things	
		(air or wind, water, soil, minerals and	
		rocks and fossil fuels)	
		Defines renewable resources	
		Identifies examples of renewable	
		resources (plants, animals, water, soil,	
		sunshine and air)	
		Discusses the characteristics of renewable	
		resources	
		Explains how renewable resources are	
		replaced naturally	'
		Defines non-renewable resources	
		Identifies the examples of non-renewable	
		resources (minerals and rocks	
		Discusses the characteristics of non-	
		renewables resources	

P.7	10. Energy	Names different energy resources in the		
	resources in the	environment (animals, plants, air or wind,		
	environment	fossil fuels, mineral fuels, water, sunshine		
		etc.)		
		States the uses of different components of		
		the environment as energy resources		
		Describes biogas production in a biogas		
		digester		
		Identifies renewable and non-renewable		
		energy resources		
		Explains how different renewable energy		
		resources are replaced naturally		
		Describes the characteristics of renewable		
		and non-renewable energy resource		
		Gives the ways of conserving renewable		
		and non-renewable resources in the		
		environment		
	11.	Names the components of the		
	Interdependency	environment		
	of things in the	States how:		
	environment	Plants depend on animals		
		Some plants benefit from other plants		
		Animals benefit from plants		
		Some animals benefit other animals		
		Plants benefit from non-living things (air,		
		wind, water, sun, soil)		
		Animals benefit from non-living things		

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			Defines agroforestry and mixed farming		
			Names the breeds of trees		
			States the importance of agroforestry		
			Explains the methods of harvesting trees		
			for different purposes		
			Describes the management of a woodlot		
			project		
P.4	3. Human	12. Personal	Defines personal hygiene		
	health	hygiene	States the ways of keeping our bodies		
			clean		
			Demonstrates keeping clean		
			Identifies the items used to keep our		_
			bodies clean		
			States the importance of keeping our		_
			bodies clean		
			Discusses the dangers of poor personal		
			hygiene		
			Identifies the diseases that spread due to		
			poor personal hygiene		
		13. Our food	Identifies the classes of food or food values		
			Names food stuffs that provide different		
			food values or sources of different food		
			values		
			Identifies the sources of food in the		
			environment		
			Explains how food gets contaminated		

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	Defines food preservation		
	Gives the importance of or reasons for		
	preserving food		
	Discusses the ways of preserving different		
	food stuffs		
	Practices proper handling of food		
	Defines deficiency diseases or		
	malnutritional diseases		
	Identifies the examples of deficiency		
	diseases		
	States the causes of different deficiency		
	diseases		
	Discusses the ways of controlling and		
	preventing deficiency diseases  Describes different methods of preparing		
	Describes different methods of preparing local dishes using common foods in the		
	community		
	Community		
14. Sanitation	States what sanitation means		
	Discusses the importance of proper		
	sanitation		
	Identify the ways of keeping our		
	environment clean or promoting		
	sanitation		
	Identifies the tools used to promote		
	sanitation		
	Describes the elements of a health home		
	Describes the elements of a hearth nome		

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16.Vectors and	Defines vectors			
diseases	Names some vectors	$\perp$		
	States the characteristics of some vectors			
	Describes the life cycle of different vectors			
	Explains how different vectors spread			
	diseases			
	Identifies diseases spread by different			
	vectors			
	Describes the prevention and control			
	measures of vector borne diseases			
17. Accidents,	Explains what an accident is			
poisoning and	Names common accidents and poisoning			
first aid	at home, school and on the way			
	States the causes of causes of accidents			
	and poisoning			
	States the ways of avoiding / controlling /			
	preventing accidents and poisoning at			
	home, school and on the way			
	Explains the meaning of first aid			
	Describes how to care for the injured			
	person			
	Describes how to take care of a poisoned			
	person			
	Distinguishes a first aid kit from a first	+ +		
	aid box			
	Identifies the components of a first aid kit	+ +		
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		States reasons for giving first aid to a casualty		
P.5	18.	Defines immunity		
	Immunization	Identifies the types of immunity		
		Gives the importance of immunity to the body		
		Identifies the childhood immunisable diseases		
		States the causes, signs, symptoms and effects of childhood immunisable diseases		
		States the meaning of vaccines and their		
		storage		
		Identifies the types of vaccines	1	
		Names the examples of vaccines		
		Discusses the administration of vaccines		
		(methods, age and body site)		
		Names other immunisable diseases		
	19. Food and	Defines breastfeeding		
	nutrition	States and advantages of breastfeeding to		
		the babies, mother and the family		
		States the disadvantages of breastfeeding		
		to the baby, mother and the family		
		Defines bottle feeding		
		Mentions the conditions that lead to bottle		
		feeding		

	States the advantages of bottle feeding to		
	the baby, mother and family		
	Describes the disadvantages of bottle		
	feeding to the baby, mother and family		
	Defines vulnerable groups of people		
	Identifies the examples of vulnerable		
	people		
	Describes the classes of food suitable for		
	different vulnerable groups of people		
	Discusses the traditional customs and		
	food taboos		
	Identifies the examples of traditional		
	customs and food taboos		
	Discusses the effects of traditional		
	customs and food taboos.		
	Explains the food consumption patterns in		
	the community (staple food for different		
	communities)		
20. Primary	Gives the meaning of PHC		
Health Care	Identifies the elements of PHC		
	States the principles of PHC		
	Describes the activities done to promote		
	PHC (community hygiene)		
	Discusses the responsibilities of		
	individuals, families and the community		
	in the promotion of health		

		States the suitable lifestyles and health practices	
		Identifies people with special needs in the	
		community	
		Explains how to care for people with	
		special needs in the community (the lame,	
		deaf, dumb, blind, crippled)	
P.6	21. Alcohol,	Describes alcohol and alcoholism	
	smoking and	Discusses the factors and reasons for	
	drugs in the	alcoholism, smoking and drug abuse in	
	society	the community	
		Describes the methods of making alcohol	
		States the effects of alcoholism to an	
		individual, family and the community	
		Defines smoking	
		Discusses the dangers of smoking to an	
		individual, family and the community	
		Explains the meaning of essential and	
		narcotic drugs	
		Describes drug misuse and drug abuse	
		Mentions the ways of storing essential	
		drugs	
		Describes drug prescription	
		Mentions reasons for prescribing drugs	
		States the dangers of buying drugs from	
		shops	

drowning and near drowning

Defines fainting, gives the causes, prevention first aid for fainting

Identifies examples of foreign bodies

Explains the first aid for near drowning

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		Draws and labels the parts of different body organs		
		States different ways of caring for different body organs		
	25. The teeth	Identifies different sets of teeth		
		Describes the different types of teeth and their functions		
		Draws and labels the general structure of a tooth		
		Identifies different diseases and disorders of teeth		
		Practises habits the promote oral health		
		Identifies the food stuffs we eat to clean our teeth		
P.5	26. Digestive	Defines digestive system		
	system	Uses a diagram to identify the parts of the digestive system and alimentary canal		
		Gives the functions of the parts of the digestive system		
		Describes the types of digestion (chemical and mechanical)		
		Identifies the diseases and disorders of		
		the digestive system (causes, signs and symptoms)		

		States the ways of controlling and preventing diseases and disorders the digestive system			
		Discusses the good health habits for maintaining the proper functioning of the digestive system			
P.6	27. Circulatory	Describes blood circulation			-
	system	Describes the structure and functions of the heart			
		Uses diagrams to identify and describe the characteristics and functions of different types of blood vessels			
		Describes blood, its components and their functions			
		Mentions diseases and disorders of the circulatory system			
		Describes the ways of increasing the volume of blood in circulation			
		Describes the ways of caring for the circulatory system		1	
		Discusses the effects of AIDS on the infected and the affected			
				'	<del> </del>
1	28. Respiratory	Identifies the respiratory organs  Describes the lungs and breathing	 +	'	+
	system	Describes the lungs and breathing  Describes an experiment on human respiration			

	Draws and labels the respiratory organs		
	Describes the breathing mechanism		
	Participates in the campaign of keeping		
	the respiratory system healthy		
29. The	Describes the growth and development of		
reproductive	human beings (puberty and adolescence)		
system	Identifies primary and secondary or		
	physical sex characteristics in males and		
	females		
	Describes social and emotional changes in		
	adolescents		
	Describes the males and female		
	reproductive cells and organs		
	Discusses the processes involved in		
	reproduction (ovulation, copulation,		
	fertilization, conception and pregnancy		
	Discusesses the effects of teenage		
	pregnancy		
	Demonstrates the proper ways of caring		
	for reproductive organs		
	Identifies the diseases and disorders of		
	the reproductive system		
	Defines family planning		
	Describes the natural and artificial		
	methods of family planning and child		
	spacing		
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		Discusses the myths and misconceptions about family planning			
P.7	30. Muscular skeletal system	Identifies different bones and muscles of the human body			
		Identifies different joints found in the human body			
		Discusses the functions of muscular skeletal system			_
		States the diseases and disorders of bones and muscles			_
		Explains the ways of preventing muscular and skeletal diseases			
		Demonstrates the correct body posture			
		Describes the good health habits for the system			_
		Draws and labels the skeleton and voluntary muscles			_
					_
	31. Excretory	Describes excretion			
	system	Names the different excretory organs of the human body			_
		Describes the functions of excretory organs in the human beings			_
		Draws and labels the excretory organs correctly			
		Names the diseases and disorders of excretory organs			_

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			Practices the correct ways of keeping the excretory system health		
			Makes comparisons between the excretory system the natural environment		
P.5	5. Science in human	32. Keeping poultry and bees	Identifies the types of poultry		
	activities and occupation		Draws and names the external parts of a domestic fowl		
		1	Names the types of chicken  Describes the breeds of chicken		_
		,	Explains the uses of poultry to people Discusses the systems of keeping poultry		
		,	Describes the management of poultry (housing and feeding)		
		<b>!</b>	Identifies the parasites and diseases of poultry		
		1	Discusses the types records kept on an a poultry farm		
			Describes the life history of bees		
			Names the types of honey bees  States the importance of bees to people		
			and the environment  Explains the conditions and reasons for		-
			swarming		

	Identifies the types and examples of beehives	
	Describes the methods of harvesting and extracting honey	
	Explains the importance of bee farming as a project	
33. Crop	Identifies the common tuber crops	
growing	Names the types of tuber crops	
	Describes the characteristics of tuber crops	
	Discusses the ways of growing and caring for tuber crops	
	Identifies the common pests and diseases of tuber crops	
	Discusses the methods of controlling and preventing pests and diseases of tuber crops	
	Describes the ways of harvesting, processing and storing different tuber crops	
	Practices the crowing of tuber crops as a project by young farmers clubs	

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	34. Keeping goats, sheep and pigs	Describes the different breeds of goats, sheep and pigs and their specific purposes Names the parasites and diseases of goats, sheep and pigs	
		Discusses the causes, signs, symptoms and ways controlling diseases in goats, sheep and pigs  Describes the methods of feeding and	
		housing goats, sheep and pigs Practices keeping goats, sheep and pigs a project Identifies different records kept in the	
		farms	
P.6	35. Keeping cattle	Identifies the types of cattle Identifies different breeds of cattle and their uses Names the external parts of a cow and a bull	
		Participates in the care for cattle  Describes the ways of grazing, watering and housing cattle  Describes the milking process on the farm	
		Names the milk products Identifies the pests and diseases of cattle	

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	Describes the causes, signs, symptoms, treatment, prevention and control of cattle pests and diseases  Explains the practices that harm cattle and other domestic animals  Participates in starting a simple livestock farm	
36. Science at home and in our community	Describes the methods of preparing safe and clean water for drinking and washing Discusses the steps of cleaning clothes Constructs a simple water purifying	
	Identifies water impurities  Describes water pollutants from chemicals  Explains the steps of obtaining local salt from ash.	
37. Types of changes	Identifies the types of changes in the environment Gives the meaning of biological, chemical and physical changes Names the examples of different types of changes Describes the characteristics of different types of changes Explains how to manage different changes in the environment	
	36. Science at home and in our community  37. Types of changes	Describes the causes, signs, symptoms, treatment, prevention and control of cattle pests and diseases  Explains the practices that harm cattle and other domestic animals  Participates in starting a simple livestock farm   Describes the methods of preparing safe and clean water for drinking and washing  Discusses the steps of cleaning clothes  Constructs a simple water purifying system  Identifies water impurities  Describes water pollutants from chemicals  Explains the steps of obtaining local salt from ash.  37. Types of changes  Identifies the types of changes in the environment  Gives the meaning of biological, chemical and physical changes  Names the examples of different types of changes  Describes the characteristics of different types of changes

			Sets up an experiment to investigate the conditions for burning and rusting				
P.5	7. Matter and energy	38. Measurements	States the different measurements of objects				<del></del>
			Explains the standard and basic units for measuring mass, weight, volume and density				
			Uses correct instruments and apparatus to take measurements				
			Explains the behavior of different objects in water (sinking and floating)				
			Finds volume of different objects using different methods				
			Finds density of different objects in relation to mass and volume	<u> </u>			_
		39. Heat energy	Defines matter				
			Identifies the states of matter	ı			_
			Discusses the properties of matter		<u> </u>		_
			Describes solutes, solvents and solutions			1	 
			Defines energy			1	_
			Identifies types and forms of energy	1		-	_
			Discusses the characteristics of energy Defines heat energy			+	_
			Identifies natural and artificial sources of		+		_
			heat energy	ı			

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P.6	40. Sound				
	energy	Explains the term sound			
		Experiments on sound as a form of energy			
		Identifies natural and artificial sources of			
		sound			
		Describes how sound travels from one			
		place to another			
		Defines musical instruments			
<i>i</i> l		States the different ways through which			
<i>i</i>		sound is produced, stored and reproduced			
<i>i</i> l		Identifies the devices for storing and			
		reproducing sound			
		Gives the types and examples of musical			
		instruments			
<i>i</i>		Explains how different musical			
<i>i</i> l		instrument are played			
<i>i</i> l		States how different musical instruments			
<i>i</i> l		produce sound			
<i>i</i> l		Carries out experiments on the behavior			
<i>i</i> l		of sound with different materials (volume,			
<i>i</i> l		echoes, pitch and frequency of sound)			
<i>i</i> l		Draws and names the different parts of			
		the human ear			

States the functions the parts of the

Describes the process of hearing in human

human ear.

beings.

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		Describes the diseases and disorders of the human ear.  Compares the human ear with other organs of hearing in other animals.  Discusses the ways of caring for the human ear.		
P.7	41. Electricity and magnetism	Defines electricity as a form of energy.  Identifies the types of electricity (current and static electricity).  Names the sources of electricity.  Defines conductors and insulators of electricity.  Names the examples of conductors and insulators of electricity  States the applications of conductors and insulators of electricity in our day to day life.  Describes an electric circuit (components and their uses)  Describes short circuits, causes and ways of preventing them.  Discusses the importance electricity in solving everyday problems.  States the advantages of using electricity.  States the safety precautions in handling electric appliances.		

	Defines magnets and magnetism.		
	Describes the properties of the magnetic		
	field.		
	Describes magnetic and non-magnetic		
	materials.		
	States and experiments on the properties		
	of magnets.		
	Explains the applications of different		
	properties of magnets in our daily life.	$\perp$	
	Identifies the types of magnets and their		
	respective examples.	$\bot$	
	Explains the methods of making		
	temporary magnets (stroking, induction		
	and electrical method)		
	Describes how an electric bell works.	$\bot$	
	Explains how to generate electricity using		
	dynamos, generators and electric motors.		
	Explains electricity and magnetism in the		
	modern world of work.	$\perp$	
		$\perp$	
42. Simple	Defines friction.	$\bot$	$\perp$
machines and	States the uses of friction.		 $\perp$
friction	Explains the ways of increasing friction.		 
	States the dangers of friction.		
	Describes the ways of reducing friction.		
	Define simple machines.		
	Explains how simple machines simplify		
	work.		

			States the characteristics of images			
1			formed by the human eye.	+		
1			Compares the parts of the human eye with those of the lens camera.			
			Discusses the eye defects (types, causes	+		
			and correction).			
			Identifies the diseases of the human eye, causes, spread and prevention.			
			Explains the health habits for keeping the human eyes healthy.			
<u> </u>						
P.7	8. The community,	44. Population and health	Names the common sicknesses in a home and community			
1	population		States the causes and ways of controlling	T		 _
1	and family		common sicknesses in a home and			
	life		community.			
1			Defines antisocial behaviours.	-		 
1			Identifies the examples of antisocial			
1			behaviours.	_		 _
1			States the causes and dangers of antisocial behaviours.			
			Discusses the ways of avoiding or	+		_
1			controlling antisocial behaviours.			
1			Defines health concerns.			_
1			Identifies health concerns in the	+		 -
1			community.			
			States the activities done to address	+		
			health concerns in the community.			

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	Defines health surveys.
	Gives the importance of health surveys.
	Explains how a health survey is done.
	Defines health education.
	Explains the importance of health
	education.
	Discusses how health education is done.
	Describes demography
	States the importance of demography

## COMPILED BY TR. TIKYILYA SHABAN KYEBALYENDA AKA MR DYNAMISM 0706 345 172 / 0781 268 664 EVERYTHING IS SUBJECT TO CHANGE IF ADVISED