TWINKLE JUNIOR SCHOOL JINJA, MUTAI

PRIMARY FIVE TERM TWO SCHEME OF WORK FOR INTEGRATED

SCIENCE BY (TIKYILYA SHABAN, 0706-345-172/0781-268-664)

TOPICS TO BE COVERED

1. THEME: THE ENVIRONMENT

TOPIC: COMPONENTS OF THE ENVIRONMENT (SOIL)

2. THEME: MATTER AND ENERGY

TOPIC: HEAT ENERGY

3. THEME: SCIENCE IN HUMAN ACTIVITIES AND OCCUPATION

TOPIC: GROWING CROPS (TUBER CROPS)

4. THEME: THE WORLD OF LIVING THINGS

TOPIC: BACTERIA AND FUNGI

NO.	THEME	TOPIC	MAIN SUB-TOPICS	LEARNING OUTCOME
1.	The	Soil	Types of soil	The learner is able to
	environ		Soil formation	recognize the causes of soil
	ment		Components of soil	degradation, demonstrate the
			Importance of soil	practices of conserving soil
			Soil erosion	and appreciate the
			Harmful materials on soil and their effects.	importance of soil in nature.
			Soil exhaustion	
			Soil conservation	
			Soil fertility	
2.	Matter	Heat	Matter	The learner is able to the
	and	energy	Properties of matter.	basic scientific knowledge on
	energy		States of matter.	effects of heat on things in
			Effects of heat on matter	the environment and
			Changes in states of matter.	demonstrates the skills of
			Heat transfer.	investigating the effects of
			Mixtures	heat on matter.
			Forces	
			Energy	
			Expansion and contraction	
			The thermos flask	
			Thermometers	

3.	Science in human activities and occupati on	Crop growin g	Types of crops grown Caring for crops Common crop pests and diseases Common tuber crops Planting, care and harvesting of tuber crops. Storage of tuber crops Science oriented clubs (young farmers clubs)	The learner is able to show knowledge about common tuber crops, demonstrates growing of tuber crops and appreciates the importance of proper harvesting, processing and storing of tuber crops.
4.	The world of living things	Bacteri a and fungi	Bacteria (what they are and breeding) Nature of bacteria. Bacterial diseases in plants and animals. Prevention, control and treatment of bacterial diseases. Fungi (what they are and examples) Harmful and useful fungi Fungal diseases in plants and animals. Prevention, control and treatment of fungal diseases. Facts about bacteria and fungi. Comparison of bacteria and fungi (differences and similarities)	The is able to use the scientific knowledge about bacteria and fungi as disease agents and how they can be used to solve problems in everyday experiences.

WEEK	PERIOD	THEME	TOPIC	CONTENT	SUBJECT COMPETENC ES	LANGUAGE COMPETENC ES	METHODS	ACTIVITIES	SKIILS AND VALUES	REF	IMS	REM
1	1.	Ori	entat	tion and revisi	on							
	2.	THE INVIRONMENT	COMPONENTS OF THE ENVIRONMENT (SOIL)	Soil Meaning of soil. Terms used in soil. Importance soil. Soil formation. Component s of soil	The learner; Defines soil. Writes the meaning different terminologie s about soil. Tells how soil is important to plants and animals. Explains the methods of soil formation. Describes the constituents of soil.	The learner; Writes, reads, pronounces, and spells the new vocabulary about soil e.g. soil, drainage, capillarity, retention, sampling etc. Writes short sentences using the new vocabulary.	Class discussion Observati on Guided discovery Excursion	Defining soil Naming the components of soil. Stating the methods of soil formation	Confidence Sharing Interpersonal relationship	 MK bk 5 Comprehensive sci Bk 5 Personal collection 	Soil Decaying matter	

3.	Soil profile	Describes	Writes and	Excursion	Defining soil	Audibility		A deep pit	
	What is soil	soil profile	reads		profile		Pe Co ¥		
	profile?		sentences	Explanatio		Responsibilit	MK bk 5 Compreh Personal		
		Names the	about soil	n	Drawing the	У	reh		
	Soil	layers of soil	profile.		diagram		col		
	horizons	profile.		Observati	showing soil	Meaningfuln	MK bk 5 Comprehensive Personal collect		
	and their x-		Recites a	on	layers	ess	ensive sci collection		
	tics	Draws and	rhyme about				i Bk		
		names the	soil profile.	Guided	Naming soil	Self-	5		
	Importance	soil layers.		discussion	layers	expression			
	of soil								
	profile					Appreciation			

4.	Types of	Names the	Reads,	Observati	Naming the	Self-		•	Sample of	
	soil Characteris tic of each type of soil (loam, sand and clay). Uses of each type of soil	types of soil Describes the characteristi c of each type of soil. Tells the different uses of each type of soil.	pronounces and writes new vocabulary like loam, clay and sand. Reads and writes the given texts about types of soil.	on Class discission Guides discovery	types of soil. Describing the uses of different types of soil.	expression Appreciation Acceptance Concern Responsibilit y	Comprehensive sci Bk 5 Personal collection	: !	loam, clay and sand soil.	

5.	Soil	Defines	Draws	Experime	Setting up	Appreciation		Soil	
	drainage, capillarity	drainage, capillarity	correct diagrams	ntation	experiment to investigate on	Self-	MK bk 5 Comprehensive sci Bk 5 Personal collection	samples of clay, loam	
	and	and	showing	Observati	the rate of	expression	npr Son	and sand.	
	retention	retention as	drainage and	on	drainage in	expression	ial (and sand.	
	<u>retention</u>	related to	capillarity of	OII	groups of 5s	Fluency	ens	Water	
	Experiment	soil.	all the types	Explanatio	g. 04p3 01 33	ridericy	ive ecti	Water	
	s to		of soil.	n '		Responsibilit	sci on	Beakers	
	investigate	Describes				у	, 목		
	on	experiments		Class			01	Measuring	
	drainage,	to		discussion		Logic		cylinder	
	capillarity	investigate							
	and	the rates of		Guided		Creativity		Pieces of	
	retention	drainage,		discovery				cloth/cott	
	of different	capillarity				Empathy		on wool	
	types of	and							
	soil.	retention of							
		different							
		types of soil.							
6.	Soil erosion	Discusses	Reads and	Excursion	Describing	Responsibilit		Flash	
	What it is	the causes	writes		causes, agents		פ ∩ פ	cards	
	Causes,	and causes	simple texts	Class	and ways of	,	MK bk Compr Person		
	agents and	of soil	about soil	discussion	controlling soil	Critical	ok 5 pre		
	control of	erosion.	erosion		erosion.	thinking	her c		
	soil erosion	Gives ways		Observati			nsiv olle		
		of		on		Problem	MK bk 5 Comprehensive sci		
		controlling				solving	ĭn C: B		
		soil erosion		Guided			Bk 5		
				discovery					

	L.	Soil	Tells the	Spells and	Whole	Discussing the	Acceptance		Flash
		<u>conservatio</u>	meaning of	articulates	class	ways of			cards
		<u>n and</u>	soil	words	discussion	conserving soil	fluency	MK bk Compr Person	
		<u>exhaustion</u>	conservation	correctly				dw	
		What they			Excursion	Sharing the	creative	MK bk 5 Comprehensive sci Personal collection	
		are	Discusses	Reads and		causes of soil	thinking	co	
			the ways of	writes notes	Guided	exhaustion		siv	
		Ways of	conserving	about soil	discovery		critical	e so	
		conserving	soil	conservation		Describing	thinking	n Si B	
		soil		correctly	Observati	ways of		Bk 5	
			Describes		on	controlling soil	Logical		
		Causes and	the causes of			exhaustion	reasoning		
		control of	soil						
		soil	exhaustion				self-		
		exhaustion					expression		
2	2.	Soil fertility	Discusses	Names the	Excursion	Naming	Problem	MK bk	Rubbish
		Meaning of	soil fertility	examples off		natural	solving	5	pit
		soil fertility	and types of	fertilizers	Observati	fertilizers			
			fertilizers	correctly	on		Appreciation	Compr	School
		Types of				Discussing the		ehensi	garden
		fertilizers	Demonstrate	Writes and	Think pair	advantages	Decision	ve sci	
			s how	reads	and share	and	making	Bk 5	
		Preparation	organic	sentences		disadvantages			
		some	fertilizers are	about soil	Explanatio	of natural	Self-	D	
		natural	obtained	fertility	n	Fertilizers	expression	Persona	
		fertilizers		correctly				l aallaasi	
			Discusses					collectio	
		Advantages	the				Confidence	n	

	And disadvanta ges of natural fertilizers	Advantages and disadvantage s of natural fertilizers				Creative thinking		
3.	Artificial fertilizers Meaning of	Gives the difference between organic and	Recites a poem about fertilizers	Excursion Class discussion	Naming the examples of inorganic manure	Appreciation Logic	MK bk 5 Compr	Solid and liquid fertilizers
	artificial fertilizers	inorganic fertilizers	Writes and reads words and	Observati on	Explaining the advantages of	Critical thinking	ehensi ve sci Bk 5	Water Jerrycan
	Classes of artificial fertilizers	Discusses the groups of inorganic	sentences about fertilizers	Guided discovery	using artificial fertilizers	Concern Responsibilit	Persona I	Knap sac sprayer
	Advantages and	manure and their examples		,	Discussing the dangers of using artificial	y Self-	collectio n	A light
	disadvanta ges of	Describes			fertilizers	expression		cloth
	artificial fertilizers	the advs and disadvs of artificial			Demonstratin g the methods of applying	Self esteem		
	Methods of applying fertilizers	fertilizers Tells the			fertilizers			
		methods of applying fertilizers						

4.	<u>Harmful</u> <u>materials</u>	States the effects of	Writes words and	Excursion	Naming soil pollutants	Fluency	MK bk	Polythene
	on soil	harmful	sentences	Observati	politicarits	Problem	3	papers
	<u>011 3011</u>	materials on	about soil	on	Stating the	solving		
	Meaning of	soil	correctly		effects of	30171118	Compr	Plastics
	soil	3011	Correctly	Whole	harmful	Responsibilit	ehensi	riastics
	pollutants	Suggests the	Names the	class	materials on	у	ve sci	
	,	safe ways of	harmful	discussion	soil	,		Old metals
	Examples	handling	materials on			Being open		
	of soil	harmful	soil	Guided	Discussing the		Bk 5	
	pollutants	materials on		discovery	safe ways of	Creative	Persona	(all
		soil	Describes		handling soil	thinking	1	collected
	Effects of		the effects of		pollutants		collectio	from soil)
	harmful		harmful			Critical	n	
	materials		materials on		Explaining	thinking		
	on soil		soil		different ways	_		
					through which	Concern		
	Ways				some farmers			
	people				lower the	Appreciation		
	pollute soil and control				productivity of soil.			
	of soil				SOII.			
	pollution							
	Poliation							
5.		1	I		<u> </u>	<u> </u>		
			FND O	E TODIC I	EVALUATIO	N TFST		

	6.	MATTER AND ENERGY	HEAT ENERGY	Matter Meaning of matter, mass and volume States of matter Properties of matter	Defines matter Tells the states of matter Experiments on the properties of matter	Correctly spells and reads words related to matter eg matter, volume weight, occupy etc	Experime ntation Class discussion Observati on	Defining matter. Naming the states of matter. Mentioning examples of different states of matter.	Confidence Appreciation Problem solving Sympathy	MK bk 5 Compr ehensi ve sci Bk 5 Persona I collectio n	Water Balloons Bottles Heater Glasses
3.	1.			Composition n of matter What matter is made of. Characteristics of each state of matter. Arrangement of particles in	Tells the meaning of molecules and atoms. Describes the characteristics of all the states of matter. Uses diagrams to distinguish	Listens and writes the words about matter correctly	Illustration Class discussion Observation Guided discovery	Stating the characteristics of each state of matter. Drawing diagrams to the arrangement of molecules in different states of matter.	Self esteem Sharing Care Concern Critical thinking	MK bk 5 Comprehensive sci Bk 5 Personal collection	Powder Piece of wood A stone

	states of matter.	between the states of matter.						
2.	Properties of liquids	Gives meaning,	Writes and reads short	Experime ntation	Defining given terms related	Care	MK bk	Paraffin
	Surface	examples and	sentences and stories	Observati	to properties of liquids.	Confidence		Water
	tension and its	application of surface	related to properties of	on	Discussing the	Taking decisions	Compr ehensi	Milk
	application	tension, cohesion,	liquids.	Class discussion	application of liquid	Problem	ve sci	Wick/piec e of cloth
	Cohesion, adhesion,	adhesion, capillary			properties	solving	Bk 5	Plastic tin
	capillary action,	action, diffusion and					Persona I	
	diffusion	dilution in our daily life.					collectio	
	dilution	our daily life.					n	
3.	Pressure in	Experiments	Writes and	Experime	Carrying out	Care	MK bk	Water
	<u>liquids and</u> <u>gases</u>	on pressure in liquids and	reads sentences	ntation	experiments on pressure in		5	Glass
	Experiment	gases	about liquids and gases.	Class discussion	liquids and gases in	Empathy	Compr	Tin
	S	Discusses the		Observati	groups.	Self- expression	ehensi ve sci	Heater
	Application oof	application of pressure		on		,		Syringe
	pressure in	- 1				Appreciation	Bk 5	- ,

	liquids and gases in	in liquids and gases				concern	Persona I	Cardboard
	day-to-day						collectio	
	activities						n	
4.	<u>Changes in</u>	Discusses	Writes notes	Experime	Summarizing	Care	MK bk	Ice cubes
	states of	the	about	ntation	the changes in		5	
	<u>matter</u>	conditions	changes in		states of	Appreciation		Metallic
		needed the	states of	Discussion	matter using			beaker
	Melting,	changes to	matter		an illustration.	Confidence	Compr	
	freezing,	occur.	correctly	Observati			ehensi	Water
	evaporatio			on		Concern	ve sci	
	n,	Identifies the	Reads the					Heater
	sublimation	changes in	given text	Explanatio		Creative		
	,	states off	related to	n		thinking	Bk 5	A bottle of
	condensati	matter.	changes in				Persona	cold water
	on,		states of			Problem	1	
	deposition		matter			solving	collectio	
			correctly.				n	
5.	<u>Mixtures</u>	Describes	Reads and	Experime	Naming	Articulation	MK bk	Salt
		the	writes words	ntation	examples of		5	
	What they	examples of	and		mixtures,	Taking		sugar
	are	mixtures,	sentences	Class	solutes and	decisions		
		solutes and	about	discussion	solvents.		Compr	Water
	Examples	solvents.	mixtures.			Care	ehensi	
	of mixtures			Observati			ve sci	Milk
				on		Critical		
	Dissolving					thinking		Oil
	substances						Bk 5	

				Explanatio n			Persona I collectio n	Flour Iron fillings
6	Separating mixtures	Experiments on decantation,	Reads and writes words related to	Whole class discussion	Discussing about mixtures in	Responsibilit y	MK bk	Filter funnel
	Separating solid-liquid mixtures	filtration and evaporation to dryness.	mixtures correctly.	Experime ntation	groups. Drawing	Problem solving	Compr	Filter paper
	using sedimentat	Explains the	Draws diagrams	Observati	diagrams showing the	Taking decision	ve sci	Flour
	ion and decantatio	application of filtration,	showing experiments	on Guided	experiments.	Care	Bk 5	Beakers Muddy
	n, filtration and evaporatio	decantation and crystallisatio	on filtration, decantation and	discovery		Appreciation	Persona I collectio	water
	n to dryness(cry	n in our everyday	crystallisatio n.			Articulation	n	Heater
	stallisation)	life.						Salt
								Clean water
1	Separating mixtures of	Carries out separating	Reads and writes	Guided discovery	Separating the given mixtures	Care	MK bk	Magnets
	liquids (fractional distillation	using a separating funnel, hand	sentences and words related to	Observati	in groups.	Esteem		Iron fillings

		and separating funnel) Separating mixtures of solids (floatation, sieving, hand picking winnowing and using magnets)	picking, winnowing etc.	separation of solid mixtures.	Class discussion		Problem solving Decision making	Compr ehensi ve sci Bk 5 Persona I collectio n	Beans with husks Water Separating funnel Paraffin Cooking oil
4.	2	Energy What energy is Types of energy Forms of energy Energy interconver	Demonstrate s kinetic and potential energy Experiments on energy interconversi on	Draws diagrams of bodies possessing kinetic and potential energy	Experime ntation Demonstr ation Discussion Observati on	Naming types and forms of energy. Discussing the sources of different forms of energy	Appreciation Care Problem solving Confidence Concern	MK bk 5 Comprehensive sci Bk 5 Personal collection	Books Ball Pendulum bob

3	<u>Heat</u>	Explains the	Writes and	Class	Discussing the	Problem	MK bk	Candles
	<u>energy</u>	sources and	reads notes	discussion	human	solving	5	
		uses of heat	related to		activities done			Electric
	Meaning of	in the	heat	Observati	by the help of	Appreciation		bulbs
	heat	environment	correctly	on	heat		Compr	
	Sources of					Care	ehensi	Charts
	heat	Discusses		Guided			ve sci	
	Uses of	the effects of		discovery		Concern		
	heat	heat loss and						
		gain				Critical	Bk 5	
	Effects of					thinking	Persona	
	heat on						1	
	matter						collectio	
							n	
4	<u>Heat</u>	States the	Writes and	Explanatio	Explaining	Appreciation	MK bk	Nail
	<u>transfer</u>	examples of	reads words	n	applications of		5	
	Meaning of	radiation	and		radiation in	Concern		Heater
	heat		sentences	Observati	daily life			
	transfer	Compares	related to	on		Taking	Compr	Wax
		the rate of	heat transfer			decision	ehensi	
	Methods	heat transfer	correctly	Guided			ve sci	
	of heat	by all		discovery				
	transfer	methods						
							Bk 5	
	Application						Persona	
	of heat						1	
	transfer in						collectio	
	day-to-day						n	
1 1	life							

	5	Convection	Describes	Recites a	Demonstr	Discussing the	Appreciation	MK bk	Charts
		al currents	convection	poem about	ation	use of	D	5	showing
		in our daily	in kitchens,	convection.		ventilation in	Being open		convectio
		<u>life</u>	fire devices		Observati	our daily			nal
			and houses.	Writes the	on	activities.	Problem	Compr	currents in
		Convection		given text			solving	ehensi	in day-to-
		in chimneys	Describes	about	Explanatio			ve sci	day
			the mode of	convectional	n		Creative		activities
		Ventilation	reflection	currents			thinking		
		in living	and	correctly	Discussion			Bk 5	
		houses and	absorption				Critical	Persona	
		fire places	of heat.		Excursion		thinking		
								collectio	
		Heat					Articulation	n	
		absorbers							
		and							
		reflectors							
•	6	Conductors	Defines	Writes and	Experime	Identifying	Responsibilit	MK bk	Water
		<u>and</u>	conductors	reads notes	ntation	conductors	У	5	
		<u>insulators</u>	and	about		and insulators			Ice
		of heat	insulators of	conduction	Observati	of heat	Problem		
			heat	and	on		solving	Compr	Heater
		What they		insulation of		Discussing		ehensi	
		are	Describes	heat	Discussion	uses of	Concern	ve sci	Wire
			the	correctly.		conductors			gauze
		Examples	application		Guided	and insulators	Audibility		
		and uses of	of		discovery	of heat		Bk 5	Test tubes
		conductors	conductors		,				

		and insulators in everyday life An experiment to show that water is a poor conductor of heat.	and insulators of heat in our daily activities.				Creative thinking Critical thinking	Persona I collectio n	
5.	1.	Vacuum flask (thermos flask) Its function Parts of a vacuum flask and it works Care for a thermos flask	Discusses the use of a vacuum flask Explains how a vacuum prevents heat loss and gain Tells how we can care for vacuum flasks	Draws and names parts of a vacuum flask correctly	Observati on Discussion Guided discovery	Discussing the vacuum flask prevents heat loss and gain. Drawing and naming the parts of a vacuum flask	Appreciation Problem solving Care Responsibilit y Logical thinking	MK bk 5 Comprehensive sci Bk 5 Personal collection	A vacuum flask A chart showing a vacuum flask

2	Expansion	Carries out	Writes notes	Experime	Discussing	Problem	MK bk	Balloons
&	<u>and</u>	experiments	about	ntation	application of	solving	5	
3	contraction	to show	contraction		expansion and			Empty
		expansion	and	Observati	contraction in	Care		bottle
	Expansion	and	expansion	on	day-to-day		Compr	
	in solids,	contraction			life.	Concern	ehensi	Bimetallic
	liquids and	in all states	Draws	Explanatio			ve sci	strips
	gases.	of matter.	diagrams	n	Explaining the	Confidence		
			showing		ways of			Soda
	Prevention	Discusses	expansion	Guided	preventing the	Creative	Bk 5	bottle
	of effects	how to	and	discovery	negative	thinking	Persona	
	of	prevent the	contraction		effects of		1	
	expansion	bad effects	(experiment)		expansion and	Critical	collectio	
	and	of expansion			contraction	thinking	n	
	contraction	and						
		contraction						
		n.					D 414 L L	
4.	<u>Temperatu</u>	Discusses	Draws and	Demonstr	Naming types	Appreciation	MK bk	Charts
	<u>re and</u>	the	names the	ation	of		5	showing
	thermomet	measures of	types of		thermometers	Problem		types of
	<u>ers</u>	temperature	thermomete	Observati	D :	solving	6	thermome
	244		rs	on	Discussing the		Compr	ters
	What is	Describes			uses of	Decision	ehensi	
	temperatur	the types of	Reads and	Class	thermometers	making	ve sci	
	е	thermomete rs and their	writes words about	discussion				
	Temperatu	uses	thermomete				Bk 5	
	re scales		rs				Persona	

	Types of thermomet ers and their uses Thermomet er liquids	Identifies liquids used in thermomete rs					collectio n	
5.	Conversion of temperatur e scales Changing from centigrade to Fahrenheit scale Changing from Fahrenheit to centigrade scale	Calculates and converts temperature from centigrade to Fahrenheit scale and vice versa	Writes and recites formulae correctly	Explanatio n Inquiry	Converting from centigrade to Fahrenheit scale and vice versa	Appreciation Patience Care Critical thinking Logic	MK bk 5 Comprehensive sci Bk 5 Personal collection	Blackboar d Chalk
6.		<u> </u>	Enc	of to	ppic te	st		

6					MID	TERM T	WO EX	AMINAT	IONS		
7	1	SCIENCE IN HUMA ACTIVITIES AND ACCUPATIONS	GROROWING CROPS	Planning a school garden A nursery bed Caring for seedlings (transplanti ng, watering, hardening off etc.)	Discusses the factors to consider when siting a school garden. Shares information about the importance of a school garden to the school and the nearby community',	Writes and reads words about crops. Recites a poem about crop growing. Writes the given notes about crop growing correctly.	Whole class discussion Guided discovery Excursion Field work	Making nursery beds And caring for them	Care Appreciation Logic Concern Responsibilit y Creative thinking Critical thinking	MK bk 5 Comprehensive sci Bk 5 Personal collection	Hoes Seeds Mulches Water
7	2 & 3			Types of tuber crops Stem tubers and root tubers	Names the types of tuber crops Describes how stem tubers are	Discusses the processes of growing stem tubers Writes and reads words	Class discussion Guided discovery Observati on	Naming stem tubers Discussing the steps followed when growing tuber crops.	Care Appreciation Logic Concern	MK bk 5 Compr ehensi ve sci	White yams Coco yams

		Meaning and examples of stem tubers Planting and harvesting stem tubers Care for stem tubers (pest)	grown and harvested Explains how to care for stem tubers	and sentences about stem tubers correctly. Draws diagrams showing stem tubers		Explaining how to manage crop pests in stem tubers.	Responsibilit y Creative thinking Critical thinking	Bk 5 Persona I collectio n	
7	4 &	Root tubers	Tells the meaning	Spells, pronounces,	Observati on	Planting root tubers	Fluency	MK bk 5	Cassava
	5	Meaning of	root tubers.	reads and			Articulation		Sweet
		root		writes words	Class	Discussing		Compr	potatoes
		tubers.	Mentions	and	discussion	how manage	Care	ehensi	
			the	sentences		and prevent		ve sci	Carrots
		Examples	examples of	about root	Excursion	root tuber	Appreciation	DI E	
		of root	root tubers.	tubers e.g.	المام المام	pests.		Bk 5	Turnips
		tubers	Explaining	cassava, sweet	Guided discovery	Explaining	Logic	Persona	Charts
		Planting,	how	potatoes,	uiscovery	how to	Concern	collectio	showing
		growing,	different	turnips,	Think pair	preserve root	Concern	n	root
		and	direction	carrots,	and share	tubers.		11	tubers.

		harvesting root tubers.	root tubers are grown. Explains how to crop pests	white flies etc. Draws and names	Experime ntation		Responsibilit y Creative thinking		
		root tubers.	in root tubers.	different examples of root tubers.			Critical thinking		
7	6	Processing and storing	Draws and labels the	Draws and labels the	Observati on	Naming modern and	Fluency	MK bk	Flash cards
		tuber crops	storage	storage		traditional	Articulation		Caras
			facilities for	facilities for	Class	stores		Compr	Dried
		Meaning of	tuber crops.	tuber crops.	discussion		Care	ehensi	cassava
		processing	Discusses	Spells,	Evnorimo	Discussing Was of caring	Approciation	ve sci	
		Ways of	the	pronounces,	Experime ntation	for tuber	Appreciation	Bk 5	
		storing	conditions	reads and		crops in	Logic	Persona	
		tuber	under which	writes words		stores.		1	
		crops,		and			Concern		

				tuber crops	sentences		Drawing and		collectio	
			Storage	are stored.	about root		naming	Responsibilit	n	
			facilities for		tubers e.g.		different	у		
			tuber	Explains the	cassava,		storage	,		
			crops.	ways of	sweet		facilities.	Creative		
				preserving	potatoes,			thinking		
			Reasons for	tuber crops.	turnips,					
			storing		carrots,			Critical		
			harvested		white flies			thinking		
			tuber		etc.					
			crops.							
_		_								
8	1		<u>science</u>	Identifies the	Draws and	Observati	Naming the	Fluency	MK bk	Books of
	&		<u>oriented</u>	science	labels the	on	science		5	records
	2		<u>clubs in our</u>	oriented	storage		oriented clubs	Articulation		
			<u>school</u>	clubs in	facilities for	Class			Compr	Resource
				schools	tuber crops.	discussion	Describing	Care	ehensi	persons
			What they	Danasilaaa	C II -	F	their roles in	A	ve sci	
			are.	Describes	Spells,	Excursion	school	Appreciation	Bk 5	
			Aims and	the roles of	pronounces, reads and	Guided		Logio	_	
			roles	the science- oriented	writes words			Logic	Persona	
			(functions)	clubs in	and	discovery		Concern	collectio	
			(Turictions)	schools.	sentences	Think pair		Concern	n	
			Marketing	SCHOOIS.	about root	and share		Responsibilit	11	
			(cooperativ	Develops	tubers e.g.	and snate		у		
			e societies)	knowledge	cassava,	Experime		, y		
			c societies)	about farm	sweet	ntation		Creative		
				records	potatoes,	Titation		thinking		
	<u> </u>			1000103	potatocs,			GIIIIKIII B		

	Farm records	turnips, yams, irish potatoes carrots, white flies etc.	Critical thinking	
8 3		END OF T	OPIC TEST	

8	4	THE WORLD OF LIVING THINHGS	BACTERIA AND FUNGI	Bacteria kingdom or kingdom monera Review the kingdoms of living things. Characteris tics of bacteria Types of bacteria according to their shapes ie cocci bacteria	Names the groups of living things Describes the characteristic of bacteria Identifies the types of bacteria of different shapes Draws and names different types of cocci or spherical bacteria.	Reads, pronounces and writes the new words about bacteria correctly e.g. bacteria, monera, kingdom, cocci, cylindrical, spirilla, spirochaete, streptococci, diplococci, staphylococc i etc.	Explanation Class discussion Observation Story telling	Naming the examples of cocci bacteria Discussing the characteristics of bacteria Drawing the examples of cocci bacteria.	Effective communication Copying with stress Logic Concern Creative thinking Critical thinking Care Taking decisions Fluency	MK bk 5 Comprehensive sci Bk 5 Personal collection	Charts showing types of bacteria Flash cards
				to their shapes ie cocci	types of cocci or spherical		•	examples of	Taking decisions		

8	5	Types of	Names the	Reads,	Explanatio	Drawing	Effective	MK bk	Charts
		<u>bacteria</u>	types of	pronounces	n	shapes of	communicati	5	showing
			bacteria	and writes		different types	on		types of
		Rod shaped		the new		of bacteria.		Compr	bacteria
		bacteria	Draws	words about			Copying with	ehensi	
			diagrams	bacteria			stress	ve sci	Flash
		Comma	showing	correctly e.g.					cards
		bacteria	different	bacillus	Class		Logic	Bk 5	
			types of	anthracis,	discussion			Persona	
		Spirilla	bacteria	salmonella			Concern	1	
		bacteria		typhi,				collectio	
				treponema			Creative	n	
				pallidum etc.			thinking		
					Observati		Critical		
					on		thinking		
							Care		
3	6	The typical	Draws and	Draws and	Explanatio	Drawing and	Copying with	MK bk	A chart
		bacterium	labels a	labels a	n	naming the	stress	5	showing a
			typical	typical		parts of a			bacterium
		Diagram of	bacterium.	bacterium.	Class	bacterium	Logic	Compr	cell.
		а			discussion	cell.		ehensi	
		bacterium	Discusses				Concern	ve sci	Flash
		cell	the uses of						cards
			different		Observati		Creative	Bk 5	
		Functions	parts e.g. the		on		thinking	Persona	
		of the parts	flagellum.					1	

							Critical thinking Care	collectio n	
9	1	Breeding in bacteria Where bacteria live Where bacteria breed from How bacteria reproduce Factors that favour the multiplicati on of bacteria	Names the places where bacteria live Describes the reproduction in bacteria Relates reproduction in bacteria to that of other organisms like amoebae Explains the conditions necessary for reproduction in bacteria	Draws a diagram showing binary fission in bacteria. Reads brief notes about bacteria correctly.	Explanatio n Class discussion Observati on	Drawing diagrams showing binary fission Discussing the mode of reproduction in bacteria	Effective communication Copying with stress Logic Concern Creative thinking Critical thinking Care Taking decisions Fluency Sympathy	MK bk 5 Comprehensive sci Bk 5 Personal collection	A chart showing binary fission in bacteria Flash cards

9	2	Nature of	Discusses	Reads short	Story	Naming	Effective	MK bk	Diseased	
		<u>bacteria</u>	the uses of	stories,	telling	diseases	communicati	5	tubers of	
			harmless	words, notes		caused by	on		plants	
		Useful and	bacteria	and facts		bacteria to		Compr		
		harmful		about	Class	animals and	Copying with	ehensi	Flash	
		bacteria	Describes	bacteria	discussion	plants	stress	ve sci	cards	
			the dangers	correctly.						
		Importance	of harmful		Guided	Discussing the	Logic	Bk 5		
		of useful or	bacteria		discovery	uses of some		Persona		
		harmless				bacteria in the	Concern	1		
		bacteria	Names the		Explanatio	environment.		collectio		
			bacterial		n		Creative	n		
		Dangers of	infections in			Explaining the	thinking			
		harmful	plants and			different ways				
		bacteria	animals			of managing	Critical			
						bacterial	thinking			
		Bacterial				infections.	_			
		diseases in					Care			
		plants and								
		animals or					Taking			
		livestock					decisions			
							Fluores			
							Fluency			
							Sympathy			
							Sympathy			
	1							<u> </u>		

9	3 -	<u>Fungi</u>	Defines	Draws and	Observati	Naming the	Effective	MK bk	Mushroo
	4	<u>rungi</u>	fungi.	labels the	on	useful fungi	communicati	5	m
	-	Meaning of	Turigi.	diagram of a	OH	userur rungi	on	,	
		fungi	Identifies the	mushroom	Guided	Drawing and		Compr	Bread
		Turigi	examples of	masmoom	discovery	labelling the	Copying with	ehensi	with
		Examples	useful fungi	Reads,	discovery	diagram of a	stress	ve sci	moulds
		of fungi ie	ascrarrangi	pronounces	Explanatio	mushroom	361633	VC 3CI	modias
		useful and	Draws	and writes	n	masmoom	Logic	Bk 5	Charts
		harmful	diagrams	the new		Discussing the	20810	Persona	showing
		fungi.	showing	vocabulary	Class	various ways	Concern	1	useful
			useful fungi.	correctly eg.	discussion	some fungi		collectio	fungi
		Examples		Fungus,		are useful in	Creative	n	
		of useful		fungi,		our	thinking		Flash
		fungi ie		mushroom,		environment			cards
		mushrooms		penicillium,			Critical		
		,		moulds,		Describing the	thinking		
		penicillium		yeast,		reproduction			
		moulds and		spores,		in yeast and	Care		
		yeast		budding etc.		other fungi			
							Taking		
		Reproducti					decisions		
		on in fungi							
							Fluency		
							Sympathy		

9	5	<u>Harmful</u>	Names the	Draws and	Observati	Drawing	Effective	MK bk	Charts
		fungi	examples of	names the	on	diagrams of	communicati	5	
			harmful	harmful		harmful fungi	on		Flash
		Moulds	fungi	fungi	Explanatio			Compr	cards
					n .	Naming the	Copying with	ehensi	
		Toadstools	Describes	Reads the		fungal	stress	ve sci	
			the dangers	new words	Class	infections in			
		puffballs	of harmful	like moulds,	discussion	plants and	Logic	Bk 5	
			fungi	toadstools,		animals		Persona	
		fungal		puffballs,	Guided		Concern	1	
		diseases	Names the	bracket fungi	discovery	Discussing the		collectio	
			fungal	correctly		ways of	Creative	n	
			diseases in			preventing,	thinking		
			plants and			treating or			
			animals			controlling			
						fungal			
						diseases			
9	6	Facts about	Discusses	Reads short	Explanatio	Explaning the		MK bk	
		<u>bacteria</u>	the	notes about	n	Similarities	Logic	5	
		and fungi	Similarities	bacteria and		between			
			between	fungi	Guided	bacteria and	Concern	Compr	
		Similarities	bacteria and		discovery	fungi		ehensi	
		between	fungi	Reads some			Creative	ve sci	
		bacteria		facts about		Discussing the	thinking		
		and fungi	Discusses	the great		Differences		Bk 5	
			the	scientists		between	Critical	Persona	
		Differences	Differences			bacteria and	thinking		
		between	between			fungi		collectio	
							Care	n	

bacteria and fungi	bacteria and fungi		Taking decisions		
			Fluency		

REVISION BEGINS

COMPILED BY TIKYILYA SHABAN FROM TWINKLE JUNIOR SCHOOL JINJA MUTAI

0706 345 172 0781 268 664