## VICTORIOUS EDUCATION SERVICE PRIMARY FOUR SCIENCE SCHEME OF WORK FOR TERM I, 2023

W K	P D	TOPIC	TOPIC	CONTENT	SUBJ. COMP'NCES	LANG. COMP'NCES	METHODS	ACTIVITIES	IND. OF L.S.V	INST. MAT.	REF.	RE M.
1	1	Plant	Floweri ng plants	Flowering plants - Flowering plants are plants that bear flowers.  Example of flowering plants - Maize Plants - Bean Plants - Bean Plants - Tea plants - Coffee Plant Characteristics of flowering plants - Flowering plants - Flowering plants bear flowers Most flowering plants reproduce by means of seeds.  Structure of a flowering plant - Stem - The root system - The terminal bud - Axillary bud - Node and internode	The learner; 1. Defines flowering plants 2. Gives examples of flowering plants. 3. States the characteristics of flowering plants. The learner; 1. Draws the structure of a flowering plant. 2. names the parts of a flowering plant 3. Identifies the systems of a flowering plant. 4. Draws and names parts of a flowering plant	The learner; 1. Pronounces, spells, reads writes and demonstrates meaning of words related to flowering plants e.g. Bear, reproduce, and flower. 2. Reads, internalize and writes texts and questions related to flowering plants.	Guided discovery Discussion observation	Defining flowering plants  Giving examples of flowering plants  Drawing the structure of a flowering plant.  Naming parts of a flowering plant.	Appreciation. Care  Awareness  Fluency  Concern	Floweri ng plants	Mk. Int. sci. pbk 4  Int. sci. syllab us bk 4	
1	2	Plant life	Structu re of a	Structure of a leaf	The learner; 1. Draws the	The learner; 1. Pronounces,	Guided discovery	Drawing the	Appreciation.	Differen t types	Mk. Int.	

		leaf	Apex	structure of a leaf.	spells, reads		structure of		of	sci.
		icai	Veins Margin	2. Names the	writes and	Discussion	a leaf	Care	leaves	pbk 4
			Stomata AS	parts of a leaf.	demonstrates	D13C0331011	a icai	Carc	brought	
			teol blade Midrib	3. Mentions the	meaning of	Observati			in the	
			Leaf stalk Leaf base	functions of each	words related to	on			class.	Int.
			Functions of parts of	part of a leaf.	flowering plants	OH	Naming	Awareness	Class.	sci.
			a leaf	pari oi a icai.	e.g. Bear,		parts of a	7100000		syllab
			1. Leaf stalk		reproduce, and		leaf.			us bk
			- Holds the leaf on		flower.		icai.			4
			the branch		2. Reads, internalize			Fluency		
			2. Midrib		and writes texts			11001107		
			- Transports		and questions		Mentioning			
			manufactured food		related to		the	Concern		
			and water.		flowering plants.		functions			
			3. Leaf blade				of parts of			
			- Has stomata used				a leaf.			
			for breathing/							
			gaseous exchange							
1 3	Plant	Leaf	Leaf venation	The learner;	The learner;	Guided	Defining	Appreciati-	Differen	Mk.
	life	venati	- Leaf venation is	1. Defines the	1. Pronounces,	discovery	leaf	on.	t types	Int.
		on	the arrangement	term leaf	spells, reads writes		venation		of	sci.
			of veins in a leaf.	venation.	and demonstrates	Discussion		Care	leaves	pbk 4
			Types of leaf	2. Identifies the	meaning of words				brought	
			venation	types of leaf	related to leaf				in the	
			<ol> <li>Network leaf</li> </ol>	venation.	venation e.g.	Observati	Identifying	Awareness	class	
			venation	3. Give examples	network and	on	types of			
			2. Parallel leaf	of plants the	parallel		leaf			
			venation.	network and	2. Reads,		venation.	Fluency		Int.
			NET WORK LEAF	parallel leaf	internalize and					sci.
			VENATION	venation.	writes texts and					syllab
			⇒ The leaf has veins		questions related			Concern		us bk
			made like a net.		to leaf venation.		Giving			4
1 1			Illustration				examples			

⇒ Network veins  ⇒ Network venation is found in leaves of dicotyledonous plants.  Example of plants	The learner; 1. Defines the term leaf venation. 2. Identifies the types of leaf venation. 3. Give examples of plants the network and		Guided discovery Discussion observation	of leaf venation Defining leaf venation			Mk. Int. sci. pbk 4
with network leaf venation Bean, Hibiscus, Flower, Peas Parallel leaf venation ⇒ The veins in a leaf run from the leaf stalk to the apex of the leaf in a parallel form.	parallel leaf venation.						Int. sci. syllab us bk 4
⇒ Parallel venation is found in leaves of monocotyledonous plants like; Maize, Millet, Sugarcane, Rice, Grass and wheat plants.							
1 4 Plant Types TYPES OF LEAVES	The learner	The learner;	Guided	Identifying	Appreciati-	Differen	Mk.

life of	f 1 eaves 2	. Simple leaves 2. Compound leaves	Indentifies the types of leaves.	Pronounces,     spells, reads writes     and demonstrates	discovery	the types of leaves.	on. Care	t types of leaves	Int. sci. pbk 4
	A	A simple leaf is a leaf with one leaf stalk.	2. Describes simple leaves. 3. Mentions examples of	meaning of words related to leaf venation e.g. network and	Discussion	Describing simple leaves.	Awareness	brought in the class	
	le -	Examples of simple eaves Simple serrated Simple lobed leaf Simple entire	simple leaves. 4. Draws the different structures of simple leaves	parallel 2. Reads, internalize and writes texts and questions related	observatio	Mentioning examples of simple	Fluency		Int. sci. syllab us bk
	-	Simple divided entire Simple palmate imple serrated	simple leaves	to simple leaves	n	leaves.	Concern		4
	3					Drawing the structure of simple			
	S	etc.				leaves			
life of	f Ty	Compound leaves ypes of leaves Compound leaves  A compound leaf	The learner  1. Describes simple leaves. 2. Mentions	The learner; 1. Pronounces, spells, reads writes and demonstrates	Guided discovery	Describing comp. leaves.	Appreciation.	Differen t types of comp.	Mk. Int. sci. pbk 4

	· · · · · · · · · · · · · · · · · · ·								
	is a leaf with	examples of	meaning of words				leaves		
	many leaflets on	simple leaves.	related to leaf		Mentioning		brought		
	one main leaf	3. Draws the	venation e.g.	Discussion	examples		in the		
	stalk.	different	pinnate, bi-		of comp.	Awareness	class		
	$\Rightarrow$ The leaflets are	structures of	pinnate and		leaves.				
	divided at original	compound	trifoliate					Int.	
	leaf stalk.	leaves	2. Reads,					sci.	
	$\Rightarrow$ Each leaflet has		internalize and			Fluency		syllab	
	its own small stalk		writes texts and	observatio	Drawing			us bk	
	called ranchis		questions related	n	the			4	
	Examples of		to compound		structure of				
	compound leaves		leaves		simple	Concern			
	1. Compound				leaves				
	pinnate leaf								
	2. Compound								
	bipinnate leaf								
	3. Compound								
	trifoliate leaf								
	4. Compound								
	digitate leaf								
	Illustration								
	Pinnate leaf								
	11/1/1/1 30000								
	0000 4000								
	September 1								
	all the								
	Bi-pinnate								

				Trifoliate Digitate Leafet Leafet Leafet Leafet Leaf stab								
	6	Plant life	Transpi ration the rate of transpi ration.	TRANSPIRATION  - Transpiration is the process by which plants lose water in form of water vapour to the atmosphere.  Importance of transpiration  a) To a plant  1. It cools the plant. 2. It enables plants to abosorb more water from the soil.  b) To the environment  ⇒ It helps in the formationn of rain fall.	The learner; 1. Defines transpiration. 2. Gives the importance of transpiration to; i) Plants ii) Animals.	The learner; 1. Pronounces, spells, reads writes and demonstrates meaning of words related to transpiration 2. Reads, internalize and writes texts and questions related to transpiration.	Guided discovery  Discussion  observation	Defining transpiration.  Giving the importance of transpiration to plants and the environment.	Appreciation.  Care  Awareness  Fluency  Concern	The local environ ment	Mk. Int. sci. pbk 4  Int. sci. syllab us bk 4	
<u> </u>				the rate of								

				transpiration 1. Temperature 2. Light intensity 3. Humidity 4. Wind 5. Surface area of a leaf							
1	7	Plant life	Ways plants reduce the rate of transpi ration.	Ways in which plants reduce the rate of transpiration  ⇒ By shedding their leaves in the dry season to reduce the rate of transpiration.  ⇒ Some plants develop a layer of wax on their leaves.  ⇒ Some plants reduce the size of their leaves to thorny structures.  ⇒ Some plants develop thick leaves to store water for the dry season.  ⇒ Some plants modify their leaves into thorns e.g. cactus plants.  Dangers of	The learner 1. Mentions ways in which plants reduce the rate of transpiration. 2. State the dangers of transpiration.	The learner; 1. Pronounces, spells, reads writes and demonstrates meaning of words related to transpiration 2. Reads, internalize and writes texts and questions related to transpiration	Guided discovery  Discussion  observation	Defining transpiration.  Giving the importance of transpiration to plants and the environment.	Appreciation.  Care  Awareness  Fluency  Concern	The local environ ment	Mk. Int. sci. pbk 4  Int. sci. syllab us bk 4

		transpiration  ⇒ Excess transpiration leads to wilting of plants.							
2 1	Plant life	PHOTOSYNTHESIS  ⇒ Photosynthesis is the process by which plants make their own food.	The learner; 1. Defines the term photosynthesis. 2. Mentions the requirements for	The learner; 1. Pronounces, spells, reads writes and demonstrates meaning of words related to	Guided discovery	Defining photosynth esis.	Appreciation.  Care	The local environ ment	Mk. Int. sci. pbk 4
		Requirements for photosynthesis  1. Water  2. Carbon diuoxide  3. Sunlight	photosynthesis. 3. Describes the conditions, raw materials, product and by	photosynthesis e.g. chlorophyll, sunlight & water. 2. Reads, internalize and	Discussion	Mentioning the requireme nts for photosynth	Awareness		Int.
		4. Chlorophyll  The raw materials for photosynthesis  1. water  2. carbon dioxide.	product for photosynthesis.	writes texts and questions related to Photosynthesis	Observati on	esis.  Describing the	Fluency Concern		syllab us bk 4
		Conditions necessary for Photosynthesis  1. Chlorophyll  2. Sunlight  1. Importance of			Brain storming	conditions, raw product and bi products of	CONCERN		
		photosynthesi to people  1. Due to photosynthesis, people get food. 2. People get oygen			Think pair and share	photosynth esis.			

				photosynthesis.								
2	2	Plant life	Uses of leaves	Functions (uses) of leaves to plants  ⇒ Leaves make food for the plant.  ⇒ Leaves help a plant to carry out transpiration.  ⇒ Some leaves store food and water for the plant e.g. onions  ⇒ Some leaves are used for plant propagation e.g. bryophyllum  Uses of leaves to people  ⇒ Some leaves are eaten as food e.g. Amaranthus.  ⇒ Some leaves are used as herbal medicine.	The learner 1. Gives the uses of leaves to people. 2. Mentions the importance of leaves to plants.	The learner 1. Pronounces, spells, reads writes and demonstrates meaning of words related to uses of leaves. 2. Reads, internalize and writes texts and questions related to uses of leave	Guided discovery  Discussion  Observati on  Brain storming	Giving the uses of leaves to people.  Mentioning the uses of leaves to plants.	Appreciation Care Awareness Fluency Concern	The local environ ment	Mk. Int. sci. pbk 4  Int. sci. syllab us bk 4	
	2	Diamet		medicine.  ⇒ Some leaves are used to thatch houses.  ⇒ Plant leaves are used for researech and study purposes.	The Leaves on	The Leaves or	Ciridad	Mayaina	A.z.z.z.a.i.a.ki		Ma	
2	3	Plant	roots	Root system	The learner;	The learner	Guided	Naming	Appreciati-	Grass	Mk.	

life	<b>ROOTS</b> ⇒ A true root system	1. Names the systems of roots.	1. Pronounces, spells, reads writes	discovery	types of root	on.	carrots	Int.
	develops from the radicle of the embryo.	2. Draws a well labelled structure of a	and demonstrates meaning of words related to root		systems.	Care	Carrons	pbk 4
	<ul><li>Types of root system</li><li>1. Tap root system</li><li>2. Fibrous root system</li></ul>	tap root and fibrous root systems.	systems. 2. Reads, internalize and writes texts and	Discussion	Drawing a well labelled	Awareness		Int.
	a) Tap root system		questions related to root systems.	Observati on	structure of root systems.	Fluency		sci. syllab us bk
	in the state of sorts					Concern		
	Root hairs: absorb     water and     mineral salts from     the soil.			Brain storming				
	2. <b>Root cap:</b> Protects the growing tip of a root.							
	Examples of plants							
	with tap root system							
	Mangoes, beans,							
	b) Fibrous root							
	system							
	⇒ This is the type of							
	root system where							
	there are many roots growing randomly from							

				the radicle of a seed Illustration							
2	4	Plant life	Types of root	TYPES OF ROOTS  1. Primary roots  2. Secondary roots  a) Primary roots  ⇒ These are roots that develop from the radicle of a germinating seed.  Examples of primary roots  1. Tap roots  2. Fibrous roots	The learner; 1. Identifies the types of roots.  2. Describes primary and secondary roots. 3. Mentions examples of primary and secondary roots.	The learner 1. Pronounces, spells, reads writes and demonstrates meaning of words related to types of roots 2. Reads, internalize and writes texts and questions related to types of roots.	Guided discovery Discussion	Identifying the types of roots.  Describing primary and secondary roots.	Appreciation.  Care  Awareness  Fluency	Cassav a tubers, sweet potato tubers, carrots	Mk. Int. sci. pbk 4  Int. sci. syllab
				by Secondary roots (adventitious roots)	4. Draws the structure of a prop root.		Observati on Brain storming	Mentioning examples of primary and secondary roots.	Concern		us bk 4

				TI							
				⇒ These are roots that develop from							
				any other part of							
				the plant other							
				than the radicle.							
				Examples of							
				adventitious roots							
				1. Prop root							
				2. Stilt roots							
				3. Buttress roots							
				4. Storage roots							
				5. Clasping roots							
				<b>6.</b> Breathing roots							
				<b>5.</b> Breaming reens							
2	5	Plant	Uses of	USES OF ROOTS TO	The learner;	The learner	Guided	Stating the	Appreciati-	Cassav	Mk.
		life	roots	PLANTS	1. states the uses	<ol> <li>Pronounces,</li> </ol>	discovery	uses of	on.	а	Int.
				$\Rightarrow$ Roots fix the	of roots the	spells, reads writes		roots to		tubers,	sci.
				plant firmly in	plant, man and	and demonstrates		plants,	Care	sweet	pbk 4
				to the soil.	the soil/	meaning of words		people		potato	
				⇒ They absorb	environment	related to uses of		and soil.		tubers,	
				water from the		roots	Discussion			carrots.	
				soil.		2. Reads,			Awareness		
				$\Rightarrow$ Some roots		internalize and					
				store food for		writes texts and					Int.
				the plant.	The learner;	questions related					sci.
				Uses of roots to man	1. states the uses	to uses of roots.			Fluency		syllab
				- Some roots	of roots the		Observati				us bk
				act as food.	plant, man and		on				4
				- Some roots	the soil/				_		
				are used as	environment				Concern		
				herbal			D				
				medicine.			Brain				
				<ul> <li>Some roots</li> </ul>			storming				

			provide fire wood to people when dry Some roots are sold for money.  Uses of roots to man - Roots hold the soil particles together hence controlling soil erosion.							
2 6	Plant life	Stems	<ul> <li>Stems</li> <li>Types Of Stems</li> <li>1. Upright or erect stems</li> <li>2. Underground stems</li> <li>3. Weak stems</li> <li>1. Upright Or Erect stems</li> <li>They grow straight in space e.g. woody plants</li> <li>2. Underground or storage stems</li> <li>⇒ These are stems</li> </ul>	The learner; 1. Names the types of stems  2. Gives the examples of the different types of stems. 3. Describes the categories of underground stems.	The learner; 1. Pronounces, spells, reads writes and demonstrates meaning of words related to stems. 2. Reads, internalize and writes texts and questions related to stems	Guided discovery  Discussion  Observati on	Naming the types of stems.  Giving examples of the different types of stems.  Describing the different	Appreciation.  Care  Awareness  Fluency  Concern	Differen t types of stems availed in class.	Mk. Int. sci. pbk 4  Int. sci. syllab us bk 4

					T	П		
	which grow			storming	categories			
	underground				of			
	and store food				undergrou			
	e.g. Stem tubers,				nd stems.			
	Bulbs &							
	Rhizomes							
	Characteristics of							
	underground STEMS							
	⇒ They have scale							
	leaves.							
	Categories of							
	underground stems							
	a) Stem tubers e.g.							
	white yams and							
	Irish potatoes.							
	b) Corms e.g.							
	cocoyam, crocus							
	and gladiolus.							
	c) Bulbs e.g.							
	onions, garlic and							
	Spider lily							
	The state of the s							
	d) Rhizomes e.g.							
	ginger, turmeric,							
	cannalilly and grass							
	such as coach							
	grass.							
2 7 Plant Stems	Weak stems	The learner;	The learner;	Guided	Describing	Appreciati-	Differen	Mk.
life	⇒ These are weak	1. Describes weak	1. Pronounces,	discovery	plants with	on.	t types	Int.
	stems which	stems.	spells, reads writes		weak		of	sci.

cannot support themselves upright. ⇒ To get enough sunlight. Groups of weak stems	<ul><li>2. Gives examples of weak stems.</li><li>3. Mentions ways plants with weak stems use to climb others.</li></ul>	and demonstrates meaning of words related to stems e.g. erect, weak stems and underground stems.	Discussion	stems.  Giving examples of plants with weak stems.	Care	stems availed in class.	pbk 4	
<ol> <li>Climbing stems         e.g. passion fruits,</li> <li>Creeping stems         How weak stems         climb others         <ol> <li>By using tendrils</li> <li>The lateral bud of a plant or the leaf tip develops into a tendril.</li> </ol> </li> <li>Examples of plants which use tendrils         Passion fruits, gourds, cowpeas, pumpkins, cucumber         <ol> <li>By using hooks</li> </ol> </li> </ol>		stems.  2. Reads, internalize and writes texts and questions related to stems.	Observati on Brain storming	Mentioning ways used by weak stems to climb others.	Fluency Concern		Int. sci. syllab us bk 4	
<ul> <li>⇒ Some plants have downward pointing thorns.</li> <li>3. By twining or clasping.</li> <li>⇒ Plants clasp their stems around a support.</li> </ul>								

3	1	Plant life	Functio ns of stems	FUNCTIONS OF A STEM TO A PLANT  1. They hold the leaves on a plant.	The learner; 1. gives the uses of stems to; a) plants b) people c) animals	The learner; 1. Pronounces, spells, reads writes and demonstrates meaning of words related to stems	Guided discovery	Giving the uses of stems to plants, people and	Appreciation.  Care	Weak stems collect ed from the environ	Mk. Int. sci. pbk 4
				2. They hold the flowers for proper pollination.  USES OF STEMS TO		e.g. erect, weak stems and underground stems. 2. Reads,	Discussion	animals	Awareness	ment.	Int. sci.
				1. Most stems are used for timber and firewood. 2. Some stems are		internalize and writes texts and questions related to functions of stems	Observati on		Fluency Concern		syllab us bk 4
				used as herbal medicines. 3. Stems are used as food for animals. 4. People use stems as firewood.			Brain storming				
3	2	Plant life	flowers	FLOWERS  ⇒ A flower is a reproductive part of a flowering plant.  The external	The learner; 1. Defines a flower. 2. Draws the internal parts of a flower. 3. Name parts of	The learner; 1. Pronounces, spells, reads writes and demonstrates meaning of words related to parts of a flower.	Guided discovery Discussion	Defining a flower.  Drawing and labeling	Appreciation.  Care	Flowers from the environ ment.	Mk. Int. sci. pbk 4

structure of a flower  - Sepals - petals  The internal structure of a flower - pistil - stamen a) Pistil  Style	a flower.	2. Reads, internalize and writes texts and questions related to parts of a flower.	Observati on Brain storming	the parts of a flower.	Awareness Fluency Concern		Int. sci. syllab us bk 4	
b). The Stamen  ⇒ The stamen is the male part of a flower.  Illustration  filament								
3 3 Plant life ns of parts of a Petals are	The learner; 1. States the function of each part of a flower.	The learner; 1. Pronounces, spells, reads writes and demonstrates	Guided discovery	Sating the function of each part of a flower.	Appreciation.  Care	The environ ment	Mk. Int. sci. pbk 4	

transfer of pollen grains from the anthers to the stigma.	pollination.  2. Names and describes the types of	spells, reads writes and demonstrates meaning of words related to		Naming the types of	Care	the environ ment.	sci. pbk 4
TYPES OF POLLINATION	pollination. 3. States the	pollination. 2. Reads,	Discussion	pollination.	Awareness		
<ol> <li>Self-pollination</li> <li>Cross pollination</li> </ol>	adaptation of some flowers to	internalize and writes texts and				A chart showin	Int.
<b>Self-pollination</b> ⇒ This is the transfer	self pollination.	questions related to pollination.		Describing self	Fluency	g an illustrati	sci. syllab
of pollen grains from the anthers of		·	Observati on	pollination.	Concern	on of self	us bk 4
a flower to the stigma of the same					Concon	pollinati on.	7
flower or another flower on the same			Brain	Stating the adaptation		OH.	
plant.  Illustration			storming	of some flowers to			
				self pollination.			
HOW THE FLOWER IS ADAPTED (SUITED)							
FOR SELF							
<b>POLLINATION</b> ⇒ The anthers and							
⇒ the aniners and stigma mature at							
the same time e.g.							
the conifers.							
$\Rightarrow$ The flower remains							

				closed until self- pollination has taken place e.g. the conifers							
3	5	Plant life	Cross pollina tion	Cross pollination  ⇒ This is the transfer of pollen grains from the anthers of a flower to the stigma of another flower on another plant of the same species.  Illustration  HOW THE FLOWER IS ADOPTED (SUITED) FOR CROSS POLLINATION  ⇒ The male and female flowers occur on the same plant e.g. in maize  ⇒ The male and	The learner; 1. Describes cross pollination. 2. States the adaptation f some flowers to cross pollination. 3. Identifies the agents of pollination.	The learner; 1. Pronounces, spells, reads writes and demonstrates meaning of words related to cross pollination. 2. Reads, internalize and writes texts and questions related to cross pollination.	Guided discovery  Discussion  Observati on  Brain storming	Describing cross pollination.  Stating the adaptation of some flowers to cross pollination.  Identifying the agents of pollination.	Appreciation.  Care  Awareness  Fluency  Concern	Flowers from the environ ment.  A chart showin g cross pollinati on	Mk. Int. sci. pbk 4  Int. sci. syllab us bk 4

3 6	life of ins wir po tec	CCs sect/ ind ollina d owers	female flowers occur on separate plants e.g. in papaws.  AGENTS OF POLLINATION  ⇒ Agents of pollination are things responsible for the transfer of pollen grains to the stigma.  Agents of pollination  1. Insects 2. wind 3. water 4. Animals e.g. bats 5. Birds  CHARACTERISTICS  OF INSECT POLLINATED FLOWERS  ⇒ They are scented flowers.  ⇒ They produce less sticky pollen.  ⇒ They are have	The learner;  1. Mentions the  CCCs of wind  and insect  pollinated  flowers.  2. States the	The learner; 1. Pronounces, spells, reads writes and demonstrates meaning of words related to pollination. 2. Reads, internalize and writes texts and	Guided discovery	Mentioning the CCCs of wind and insect pollinated flowers.	Appreciation. Care Awareness	Flowers from the environ ment.  A chart showin g cross	Mk. Int. sci. pbk 4
		wers	⇒ They produce	•	pollination. 2. Reads,	Discussion		Awareness		
				2. States the			Statina the			Int.
			brightly coloured petals.	importance of	questions related to pollination.		importanc e of	Fluency	pollinati on	sci. syllab
			⇒ CHARACTERISTIC S OF WIND POLLINATED	pollination.		Observati on	pollination.	Concern		us bk 4

				FLOWERS.  ⇒ The petals have dull colours.  ⇒ The flowers do not produce nectar.  ⇒ They produce a lot of pollen grains.  IMPORTANCE OF POLLINATION  ⇒ Pollination allows fertilization to take place in farmers' crops.  ⇒ Pollination allows high yield in farmers' harvest.			Brain storming	Identifying the agents of pollination.			
3	7	Plant life	SEEDS	SEEDS A seed is a fertilized mature ovule. Classification of seeds a) Monocotyled onous seeds b) Dicotyledono us seeds Monocotyledonous	The learner; 1. Defines a seed. 2. Mentions types of seeds. 3. Describes monocotyledon ous seeds. 4. States the CCCs of monocots with relevant	The learner; 1. Pronounces, spells, reads writes and demonstrates meaning of words related to seeds like dicot and monocots. 2. Reads, internalize and writes texts and	Guided discovery Discussion	Defining a seed.  Mentioning the types of seeds.  Describing monocotyl	Appreciation.  Care  Awareness	Differen t grains such as maize, millet, sorghu m.	Mk. Int. sci. pbk 4  Int. sci.

			<ul> <li>⇒ Monocotyledon ous seeds are seeds that have one cotyledon.</li> <li>Examples of monocotyledonous seeds         <ol> <li>maize</li> <li>millet</li> <li>sorghum</li> <li>barley</li> <li>rice</li> </ol> </li> <li>A structure of maize grain</li> </ul>	examples.	questions related to seeds	Observati on Brain storming	edonous seeds.  Stating the CCCs of Monocots with relevant examples.	Concern		syllab us bk 4
4 1	life	Dicotyl edono	Dicotyledonous seeds	The learner; 1. Describes	The learner; 1. Pronounces,	Guided discovery	Describing dicotyledo	Appreciation.	Bean seeds,	Mk. Int.
		US	<ul> <li>⇒ These are seeds that have two cotyledons.</li> <li>Examples include</li> <li>1. beans</li> </ul>	dicotyledonous seeds. 2. Gives examples of dicotyledonous	spells, reads writes and demonstrates meaning of words related to dicotyledonous	Discussion	nous seeds.	Care Awareness	soya or ground nut seeds.	sci. pbk 4
			<ul><li>2. peas</li><li>3. soya</li><li>4. Ground nuts</li></ul>	seeds. 3. States the CCC of	seeds. 2. Reads, internalize and		Giving examples of			Int.
			A structure of a bean seed	dicotyledonous seeds.	writes texts and questions related to dicotyledonous	Observati	dicotyledo nous seeds.	Fluency		sci. syllab us bk
			Functions of each		seeds.	on	Stating the CCCs of	Concern		4

	т			Г	Т		<del></del>			
		I	1. Plumule –	1			dicotyledo			
		İ	develops into	 		Brain	nous seeds			
		I	shoot system	1	,	storming				
		I	2. <b>Radicle</b> – develops	1						
		İ	into root system	 						
		ĺ	3. <b>Testa</b> – protects the							
		İ	internal parts from	 						
		İ	damage.	 						
		İ	4. Cotyledon- It	 						
		ĺ	stores food for the		,					
		ĺ	seed.							
		ĺ	<ol><li>5. Endosperm stores</li></ol>		,					
		ĺ	food for the		,					
		ĺ	embryo		,					
		l		<u> </u>						
4 2	Plant	Seed	Seed Germination	The learner;	The learner;	Guided	Defining	Appreciati-	Germin	Mk.
	life	Germi	⇒ Germination is the	1. Defines the	1. Pronounces,	discovery	the term	on.	ating	Int.
	III C	nation	development of a	term	spells, reads writes	Cliscovel y	germinatio	011.	seeds.	sci.
		ııdılon	seed embryo into a	germination.	and demonstrates		n.	Care	30003.	pbk 4
		ĺ	young plant.	2. Mentions the	meaning of words		11.	Care		
		ĺ	⇒ A seedling is a	conditions for	related to seed				A chart	
		ĺ	→ A seeding is a young plant	seed	germination	Discussion		Awareness	showin	
		l	Condition for	germination.	2. Reads,	DISCUSSION	Mentioning	Awdielless		
		l	germination	germinanon.	internalize and		the		g seed germin	
		l	Water	3. Describes the	writes texts and		conditions		ation.	Int.
		l						Eluopov	dilon.	sci.
		l		importance of	questions related to Seed		for seed	Fluency		
		l	for the radicle to	each condition			germinatio			syllab
		l		necessary for	germination.	Observati	n.	0		us bk
					i '	on	The state of the s	Concern	1	4
				seed germination.	1	011				'
			- for respiration	seed germination.						
			- for respiration Oxygen	seed germination.						
			- for respiration	seea germination.		Brain	Describing the			

				for the germinating seed.  Steps under gone by a seed during germination  ⇒ The seed absorbs water through the micropyle and swells.  ⇒ Testa softens swells and opens for the radicle to pass out.  ⇒ The radicle comes out of the seed to form the root system.  ⇒ The Plumule comes out to grow into the shoot system.			storming	importanc e of each condition of seed germinatio n.			
4	3	Plant life	Types of	Types of germination - Epigeal	The learner;  1. The learner identifies the	The learner; 1. Pronounces,	Guided discovery	Identifying the types of seed	Appreciation.	A chart showin	Mk. Int.
			germin ation	germination - Hypogeal	types of	spells, reads writes and demonstrates		germinatio	Care	g seed germin	sci. pbk 4
				germination <b>Epigeal germination</b>	germination.  2. Describes each	meaning of words related to seed		n.		ation.	
				- This is the type in which the	type of germination.	germination 2. Reads,	Discussion	Describing	Awareness		
				cotyledon comes	3. Illustrates to	internalize and		epigeal			Int.
				out of the ground. <b>A bean seed</b>	show the two types of	writes texts and questions related		germinatio n.	Fluency		sci.
					germination.	to Seed			, , , ,		syllab
					4. Mentions	germination.	Observati				us bk

				Examples of seeds that undergo epigeal germination Beans Ground nuts Hypogeal germination - This is type of germinations in which a cotyledon remains under ground. Illustration  Examples of seeds that undergo hypogeal germination Maize Rice	examples of seeds that undergo each type of germination.		Brain storming	Illustrating the types of seed germination.  Mentioning examples of seeds that undergo each type of seed germination.	Concern		4	
4	4	Plant life	Seed viabilit y and seed dorma ncy	Seed viability and seed dormancy - Seed viability is the ability of a seed to germinate given the necessary conditions.	The learner; 1. Defines seed viability. 2. States the CCCs of a viable seed. 3. Gives the	The learner; 1. Pronounces, spells, reads writes and demonstrates meaning of words seed viability and seed dormancy	Guided discovery Discussion	Defining seed viability.  Stating the CCCs of a	Appreciation.  Care  Awareness	A chart showin g an experim ent on seed viability	Mk. Int. sci. pbk 4	
				Characteristics of	meaning of	germination	Discossion	viable	7 (WG) G1 1G33	seed vi		

		seed viability  ⇒ They should be mature.  ⇒ They should be free from pest damage.  Factors that make a seed fail to germinate  ⇒ When the seed has holes.  ⇒ When the embryo is not mature.  Experiment on seed viability	seed dormancy.  4. States the factors that may make a seed fail to germinate under normal conditions.	2. Reads, internalize and writes texts and questions related to seed viability and seed dormancy	Observati on Brain storming	seed.  Giving the meaning of seed dormancy.  Stating the factors that may make a seed fail to germinate.	Fluency Concern		Int. sci. syllab us bk 4
4 5	es of ants	Uses of plants to people  ⇒ Some plants are sources of food.  ⇒ Some plants are used as herbal medicine.  ⇒ Coniferous plants are used for decorating live fences.  ⇒ Plants provide firewood and charcoal.  ⇒ Some plants	The learner; 1. state the uses of plants to people	The learner; 1. Pronounces, spells, reads writes and demonstrates meaning of words related seed viability and seed dormancy germination 2. Reads, internalize and writes texts and questions related to seed viability and seed	Guided discovery  Discussion  Observation	Stating the uses of plants to people	Appreciation.  Care  Awareness  Fluency  Concern	Environ ment	Mk. Int. sci. pbk 4  Int. sci. syllab us bk 4

provide nard wood for fimbers.  Plants provide oxygen to animals.  Some plants provide food to animals.  Plants provide food to animals.  Plants provide ashelter to some animals.  Plants provide animals with oxygen for respitation.  Importance of plants to the environment and plants help to purify air by obsorbing carbon dioxide.  4		$\neg$					T	T			
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4 6 Growi ng crops				_				1			
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that is grown and crops  that is grown and cared for a particular purpose.  Groups of crops  That is grown and cared for a particular purpose.  Groups of crops  That is grown and cared for a particular purpose.	4 6	Growi	crops	→ A crop is a plant	The learner:	The learner	Guided	Namina	Appreciati-	Environ	NAL !
crops cared for a examples of spells, reads writes and demonstrates particular purpose. Groups of crops examples of common crops. Groups of crops examples of common crops. Groups of crops examples of common crops. Groups of crops examples of common crops. The common crops of crops examples of common crops. The common crops of crops examples of common crops.  The common crops of crops examples of common crops of common crops of crops examples of common crops.  The common crops of crops examples of common crops of crops examples of common crops of crops examples of common crops of crops examples of common crops of crops examples of crops examples of common crops examples of common crops examples of common crops examples of common crops examples of common crops examples of common crops examples of common crops examples of common crops examples of common crops examples of common crops examples of common crops examples of common crops examples of crops examples examples examples of common crops examples exampl	,   -		Ciops		-	T		_			
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Groups of crops meaning of words		Ciops				·		Or Crops.	Care		
					Common crops.			'	Cule		POR 4
(Categories of 2. Identifies the Telated to Crops.   Identifying					2 Identifies the			Identifying			
				(Calegories of	2.100111111051110	reidied to crops.		Ideninying			ļ

			crops) 1. Annual crops 2. perennial crops a) Annual crops:   These are crops   which mature   and harvested   within one year.   Examples of annual   crops Sun flower   sorghum   Beans   Peas   maize   Ground nuts Perennial crops:   These are crops   that are   harvested year   after year. Examples of   perennial crops Coffee crop   tea crop	groups of crops.  3. Mention examples of crops under each group.	2. Reads, internalize and writes texts and questions related to crops.	Observati on Brain storming	the groups of crops.  Mentioning examples of crops under each group.	Awareness Fluency Concern		Int. sci. syllab us bk 4
			banana crop.							
4 7	Crop growin g	Garde n tools	Garden tools Examples of garden tools.  - Hoe - Spade - Axe - Rake	The learner; 1. mentions the common tools Draws their structures and states their uses.	The learner; 1. Pronounces, spells, reads writes and demonstrates meaning of words related to garden tools	Guided discovery  Discussion	Mentioning the common tools.	Appreciation.  Care  Awareness	Illustrati ons of differen t garden tools.	Mk. Int. sci. pbk 4

				- Wheel barrow - Watering can - Slasher Their structure and uses.		2. Reads, internalize and writes texts and questions related to garden tools.	Observati on Brain storming	the structure of different garden tools.  Stating the uses of different garden tools.	Fluency Concern	Where possible, real garden tools brought to class.	Int. sci. syllab us bk 4
5	1	Crop growin g	More garde n tools	More Garden tools Examples of garden tools.  - Forked hoe - Watering can - Trowel - Garden fork - Pick axe Their structure and uses.	The learner; 1. mentions the common tools 2. Draws their structures and states their uses.	The learner; 1. Pronounces, spells, reads writes and demonstrates meaning of words related to garden tools 2. Reads, internalize and writes texts and questions related to garden tools.	Guided discovery  Discussion  Observation	Mentioning the common tools.  Drawing the structure of different garden tools.  Stating the uses of different	Appreciation.  Care  Awareness  Fluency  Concern	Illustrations of different gardentools.  Where possible, real gardentools brought to class.	Mk. Int. sci. pbk 4  Int. sci. syllab us bk 4
5	2	Crop growin	More garde	More Garden tools Examples of garden	The learner; 1. mentions the	The learner; 1. Pronounces,	Brain storming Guided discovery	garden tools. Mentioning the	Appreciation.	Illustrati ons of	Mk. Int.

	Γ	1 1.	11-						-1;tt	:
	g	n tools	<ul><li>tools.</li><li>More garden tools</li><li>Secateur</li></ul>	common tools 2. Draws their structures and states their uses.	spells, reads writes and demonstrates meaning of words related to garden	<u>.</u>	common tools.	Care	differen t garden tools.	sci. pbk 4
			<ul><li>Pruning saw</li><li>Knives</li><li>Sickle</li><li>Their structure and uses.</li></ul>		tools 2. Reads, internalize and writes texts and questions related	Discussion	Drawing the structure of different garden	Awareness	Where possible , real	Int. sci. syllab us bk
					to garden tools.	Observati	tools.		garden tools	4
						on Brain	Stating the uses of different garden	Concern	brought to class.	
						storming	tools.			
5 3	g	Caring for garde n tools	Caring for garden tools  ⇒ By cleaning them after use. ⇒ By keeping them	The learner; 1. Mentions ways of caring for garden tools. 2. Describes the	The learner; 1. Pronounces, spells, reads writes and demonstrates meaning of words	Guided discovery	Mentioning the common tools.	Appreciation.  Care	Lubricat ing oil and grease brought	Mk. Int. sci. pbk 4
			in a cool dry place.  ⇒ By using the tools for their rightful purposes.  Rusting ⇒ Rusting is a process by which iron combines	conditions for rusting. 3. Identifies the ways of preventing rusting.	related to care for garden tools 2. Reads, internalize and writes texts and questions related to care for garden tools.	Discussion  Observation	Drawing the structure of different garden tools.	Awareness Fluency Concern	to class.	Int. sci. syllab us bk 4
			with oxygen and moisture to form				Stating the uses of			

		т		7	T	<del></del>	_			т	
'			'	a brown coloured				different	1		
				substance called			Brain	garden	1		[ ]
'				rust.			storming	tools.			
				Conditions that					1		
ļ				favour rusting to					1		
'				take place					1		Ţ [ ] '
'				1. Oxygen							i ['
'				2. Moisture					1		
				Dangers of rusting on							
	[			metals	]						
				Rusting makes	]						
'				_					1		
'				tools weak and							
'				worn out.					1		
'				2. Rusting makes							
'				some tools blunts					1		
'				thus leading to							
ļ				wearing due to					1		
.   '				increased friction.							i ['
.   '	[			Control of rusting							i ['
ļ				⇒ By painting							
ļ				metallic garden							
				tools.					1		[ ]
				$\Rightarrow$ By keeping tools					1		[ ]
				in cool dry					1		[ ]
.   '				places.							
'				⇒ By oiling or					1		
.   '				greasing some					1		
.   '				tools.					1		
I				10013.							
5	4	Crop	Crop	Crop Growing	The learner,	The learner;	Guided	Mentioning	Appreciati-	The	Mk.
I		growin	Growin		1. Mentions the	1. Pronounces,	discovery	the crop	on.	environ	Int.
'		g	g	⇒Crop growing	crop growing	spells, reads writes	,	growing	1	ment	sci.
'	[		Practic	practices are	practices.	and demonstrates		practices.	Care		pbk 4
				<u> </u>	<u>                                      </u>	G110. 5.5			<u> </u>		р.с

5 5	Crop	activities involved in the production of food e.g.  1. Land preparation 2. Selecting seeds for planting 3. Planting or sawing 4. Transplanting Land preparation - This is the first stage in a food path usually done in the dry season.  Activities involved during land preparation  ⇒ Cutting down trees using an axe or panga.  ⇒ Controlled bush burning.  Ploughing land  ⇒ It is done using a tractor, oxplough, hoes, and forked hoe.  ⇒ Ploughing the land is done to make the soil loose and soft  Planting	2. Describes land preparation.  3. States the different activities done during land preparation.  The learner;	meaning of words related to crop growing practices.  2. Reads, internalize and writes texts and questions related to crop growing practices.  The learner;	Discussion  Observation  Brain storming	Describing land preparation  Stating the different activities done during land prparation	Awareness Fluency Concern	The	Int. sci. syllab us bk 4
5 5	growin	⇒ This refers to	1. Describe the	1. Pronounces,	discovery	the term	on.	school	Int.

	g	putting seeds in holes and covering with soil.  Example of planting materials  - Seeds, suckers, stem cuttings, bulbs  Qualities of good planting materials  ⇒ They should be mature and healthy.  ⇒ The seeds should not be broken.  ⇒ They should be of desired characteristics.  Methods of planting  1. Row planting. This is the planting of seeds or crops in lines.	term planting.  2. Mentions examples of planting materials.  3. Identifies the methods of planting.	spells, reads writes and demonstrates meaning of words related to planting 2. Reads, internalize and writes texts and questions related to planting.	Discussion  Observation  Brain storming	Mentioning examples of planting materials.  Identifies the methods of planting.	Care Awareness Fluency Concern	dem. Garden	sci. pbk 4  Int. sci. syllab us bk 4
5 6	growin tage g of re		The learner; 1. States the advantages and disadvantages	The learner; 1. Pronounces, spells, reads writes and demonstrates meaning of words	Guided discovery	Stating the advantage and disadvantages of row	Appreciation.  Care	The school dem. Garden	Mk. Int. sci. pbk 4

			metho d	spread of diseases and pests.  ⇒ It makes harvesting easy.  ⇒ It prevents wastage of seeds and other planting materials.  ⇒ It allows proper spacing of crops.  Disadvantages of raw planting ⇒ It needs a lot of labour.  ⇒ It is allows proper spacing of crops.  Examples of crops	of raw planting.  2. Mentions examples of crops that can be planted in rows.	related to row planting 2. Reads, internalize and writes texts and questions related to row planting	Discussion  Observation  Brain storming	planting.  Mentioning examples of crops that can be planted in rows.	Awareness Fluency Concern		Int. sci. syllab us bk 4
				planted by raw planting 1. Maize 2. Pineapples 3. Beans 4. Potatoes 5. Cassava							
5	7	Crop growin g	Broad castin g	Broadcasting  - This is the planting of seeds by throwing them using the hand in a garden.	The learner; 1. The learner describes broadcasting method. 2. States the advantages	The learner; 1. Pronounces, spells, reads writes and demonstrates meaning of words related to broadcasting	Guided discovery Discussion	Describing the advantage and disadvanta ges of broadcasti	Appreciation.  Care  Awareness	The school dem. Garden	Mk. Int. sci. pbk 4

Illustration	and	method.		ng			Int.	
Crops planted by broadcasting method  1. Simsim 2. Millet Advantages of broadcasting method  ⇒ It saves time. ⇒ It does not need a lot of labour.  Disadvantages of broadcasting method ⇒ It can lead to easy spread of diseases.	disadvantages of broadcasting method.  3. Names the examples of crops that can be planted by broadcasting.	method. 2. Reads, internalize and writes texts and questions related to broadcasting method.	Observati on Brain storming	ng method.  Stating the advantage and disadvanta ges of broadcasting method.  Naming examples crops that can be broadcast ed.	Fluency Concern		Int. sci. syllab us bk 4	
⇒ Many tines, crop do not yield as expected.	S							
6 1 Crop A A nursery bed	1. Defines a	The learner;	Guided	Defining a	Appreciati-	The	Mk.	
growin   nursery   ⇒A nursery bed is c	nursery bed.	1. Pronounces,	discovery	nursery	on.	school	Int.	
g bed place where	2. Mentions	spells, reads writes		bed.		dem.	sci.	
seedlings are	examples of	and demonstrates			Care	Garden	pbk 4	
raised.	crops that can	meaning of words				•		

Crops that can raised on a nu bed Coffee, onion Structure of a	nursery bed. 3. States the importance of a	related to a nursery bed. 2. Reads, internalize and writes texts and	Discussion	Mentioning examples of crops that can be raised	Awareness	A chart showin g A	Int. sci. syllab
Importance o		questions related to a nursery bed.	Observati on	on a nursery bed.	Fluency Concern	nursery bed.	us bk 4
⇒ It protects seedlings f too much sunshine. ⇒ It protects seedlings f too much and rainfa	from direct from wind		Brain storming	States the importanc e of a nursery bed.			
Transplanting  ⇒ Transplant the transfe seedlings f nursery be the main g ⇒ Transplant best done evening b there is little	ing is er of from a ed to garden. ing is in the ecause le loss						
of water the transpiration	9						
6 2 Crop Ways Ways of carin		The learner;	Guided	Mentioning	Appreciati-	The	Mk.
growin of plants g caring Weeding	1. Mentions the different ways of	1. Pronounces, spells, reads writes	discovery	different ways of	on.	school dem.	Int. sci.

	for plants	Staking Spraying Pruning Thinning Staking  ⇒ Staking is the giving of extra support to the plants with stems.  ⇒ Staking can be done on tomatoes.	caring for crops.  2. Describes the meaning of staking and propping,  4. Names examples of crops that can be staked or propped.	and demonstrates meaning of words related caring for crops.  2. Reads, internalize and writes texts and questions related to care for crops.	Discussion  Observati on  Brain storming	Caring for crops.  Describing the meaning of staking.  Naming examples of crops that can be staked.	Care  Awareness  Fluency  Concern	Garden . A chart showin g A nursery bed.	Int. sci. syllab us bk
		Examples of crops that can be staked 1. Coffee 2. Tomatoes							
6 3	Crop Weedi growin ng g	weeding  a) Weeding is the removal of plants from an area where they are not wanted.	The learner; 1. Defines weeding. 2. Mentions examples of weeds.	The learner; 1. Pronounces, spells, reads writes and demonstrates meaning of words related to	Guided discovery	Mentioning different ways of caring for crops.	Appreciation.  Care	The school dem. Garden	Mk. Int. sci. pbk 4

			Examples of weeds - nut grass - couch grass Dangers of weeds - They compete with crops for water and mineral salts - Weeds are hiding places for crop pests. Uses of weeds ⇒ For feeding some farm animals ⇒ For thatching houses Ways of controlling weeds. ⇒ By uprooting and burning them ⇒ By mulching Gap filling ⇒ Gap filling is the planting of seeds or seedlings in places where they did not germinate.	3. Identifies garden tools used foe weeding. 4. Mentions dangers of weeds.	weeding. 2. Reads, internalize and writes texts and questions related to weeding	Observati on Brain storming	Describing the meaning of staking.  Naming examples of crops that can be staked.	Awareness Fluency Concern	A chart showin g A weedin g tool.	Int. sci. syllab us bk 4
6 4	growin g	Thinnin g and prunin g	Thinning and  ⇒ Thinning is the removal of excess seedlings in the garden.  Advantages of	The learner; 1. Defines thinning and pruning. 2. States the advantages of thinning and	The learner; 1. Pronounces, spells, reads writes and demonstrates meaning of words related to thinning	Guided discovery	Mentioning different ways of caring for crops.	Appreciation.  Care	The school dem. Garden	Mk. Int. sci. pbk 4

	thinning crops  ⇒ It creates space for crops to grow ⇒ It makes weeding easy  Commonly thinned crops  1. Cotton 2. Sunflower  Pruning ⇒ Pruning is the removal of unwanted parts of a plant.  Garden tools used for pruning  1. secateurs 2. pruning saw  Reasons why crop farmers prune their crops ⇒ To remove hiding places for crop pest  Plants which are pruned include  1. orange plant	pruning.	and pruning 2. Reads, internalize and writes texts and questions related to thinning and pruning	Observati on Brain storming	Describing the meaning of staking.  Naming examples of crops that can be staked.	Awareness Fluency Concern		Int. sci. syllab us bk 4
6 5 Crop Mulchi	2. banana plant	The leaveer	The learner	Guided	Defining	Appropiati	Tho	Mk.
6 5 Crop Mulchi growin ng g	Mulching  ⇒Mulching is the covering of top soil with dry plant materials in the	The learner; 1. Defines mulching. 2. States the advantages	The learner; 1. Pronounces, spells, reads writes and demonstrates meaning of words	discovery	mulching.  Stating the advantage	Appreciation.  Care	The school dem. Garden	Int. sci. pbk 4

garden.	and	related to		and			
Examples of mulches	disadvantages	mulching and	Discussion	disadvanta	Awareness		
Dry banana leaves	of mulches.	manuring		ges of		Int.	
Advantages of	3. Describes	2. Reads,		mulching.		sci.	
mulching	manuring.	internalize and				syllab	
⇒ Mulching keeps	4. States the	writes texts and			Fluency	us bk	
moisture in the soil	importance of	questions related		Describing	,	4	
⇒ Mulching controls	manuring.	to mulching and	Observati	manure.			
soil erosion		manuring.	on		Concern		
Disadvantages of							
mulching							
⇒ Mulches can				Stating the			
easily catch fire			Brain	importanc			
and burn crops.			storming	e of			
⇒ Mulches are				manuring.			
hiding places for							
crop pests e.g.							
rats.							
Manuring							
⇒ Manuring is the							
putting of							
fertilizers in soil to							
make it more							
fertile.							
⇒ Or manuring is							
the act of adding							
fertilizers into the							
soil.							
Importance of							
<b>manure</b> 1. Manure makes							
the soli more fertile.							
ieille.							

6	7	Crop growin g	CROP HARVE STING	<ul> <li>2. Manure improves on the expected crop yields.</li> <li>CROP HARVESTING         <ul> <li>⇒ Harvesting is the collection of mature crops from the garden</li> </ul> </li> <li>Methods of crop harvesting         <ul> <li>⇒ By uprooting using hands e.g. soya beans, beans, ground nuts</li> </ul> </li> <li>Storage</li> </ul>	The learner; 1. Defines harvesting. 2. Mentions garden tools for harvesting different crops. 3. Identifies ways /methods of harvesting	The learner; 1. Pronounces, spells, reads writes and demonstrates meaning of words related to harvesting. 2. Reads, internalize and writes texts and questions related to care for crops.	Guided discovery  Discussion  Observation	Defining the term harvesting.  Mentioning garden tools for harvesting.  Identifying ways/ methods of harvesting	Appreciation. Care Awareness Fluency Concern	The school dem. Garden	Mk. Int. sci. pbk 4  Int. sci. syllab us bk 4
				<ul> <li>⇒ This is the keeping of surplus food safely after harvesting</li> <li>⇒ Seeds and cereals after sun drying them, should be stored properly</li> <li>A storage facility (granary)</li> </ul>			Brain storming				

		into the granary  Reasons for storing  food  ⇒ To prevent  wastage of food  ⇒ To sell it when  there is good  market  Conditions for proper  storage of food  ⇒ The seeds or  grains should be  stored when they  are dry							
7 1	Crop growin g	Record keeping  ⇒ This is a practice where a farmer writes down all	The learner; 1. Defines record keeping. 2. States the	The learner; 1. Pronounces, spells, reads writes and	Guided discovery	Defining the term harvesting.	Appreciation.  Care	The school dem.	Mk. Int. sci. pbk 4
		the activities done on the farm. ⇒ Farm records are written information about	common records kept on a crop farmer.  3. Gives the importance of	demonstrates meaning of words related to record keeping. 2. Reads, internalize and	Discussion	Mentioning garden tools for harvesting.	Awareness		Int. sci. syllab
		various activities carried out on a farm.	keeping records.	writes texts and questions related to	Observati	Identifying ways/	Fluency		us bk 4
		Types of farm records  ⇒ production     records  ⇒ inventory records		record keeping.	on	methods of harvesting	Concern		
		Reasons why crop			Brain				

		farmers keep records  ⇒ They enable a crop farmer to calculate profits and losses ⇒ They enable a crop farmer to plan for his farm			storming					
7 2	Crop growin g		The learner; 1. Defines crop pests. 2. States the Dangers of crop pests. 3. Mentions signs of crop pests in the garden	The learner; 1. Pronounces, spells, reads writes and demonstrates meaning of words related to crop pests. 2. Reads, internalize and writes texts and questions related to crop pests.	Guided discovery  Discussion  Observati on  Brain storming	Defining crop pests.  Stating the dangers of crop pests.  Mentioning signs of crop pests in the garden.	Appreciation.  Care  Awareness  Fluency  Concern	The school dem. Garden	Mk. Int. sci. pbk 4  Int. sci. syllab us bk 4	

				⇒Rotten tubers							
				⇒Stunted growth.							
7	3	Crop	Crop	Pests for different	The learner;	The learner;	Guided	Identifying	Appreciati-	The	Mk.
		Growi	pests	crop pests	1. Identifies crop	1. Pronounces,	discovery	crop pests	on.	school	Int.
		ng	for	Legumes	pests for	spells, reads		for		dem.	sci.
			differe	- bean weevils	different crops.	writes and		different	Care	Garden	pbk 4
			d	- Cut worm	2. States the ways	demonstrates		crops.			
			crops.	- Bean fly	of controls crop	meaning of					
				- thrips	pests.	words related to	Discussion		Awareness		
				- termites	3. Mentions the	crop pests.		Stating the			Int.
				tubers	different crop	2. Reads,		ways of			sci.
				- rats	diseases.	internalize and		controlling			syllab
				- mice		writes texts and		crop pests.	Fluency		us bk
				- Caterpillars		questions					4
				Cereals		related to crop	Observati				
				- locusts		pests.	on		Concern		
				- monkeys				Mentions			
				- maize weevils				the			
				How to control crop				different			
				pests			Brain	crop			
				⇒By spraying crops			storming	diseases.			
				with pesticides							
				⇒By putting scare							
				crows in the							
				garden.							
				Crop diseases							
				- Rosette							
				- Tomato blight							
				- Maize streak							
7	4	Weath	Types	Weather,	The learner;	The learner;	Guided	Giving the	Appreciati-	The	Mk.
		er	of	What is weather?	1. Give the	1. Pronounces,	discovery	meaning	on.	school	Int.
		chang	weath	Weather is the state	meaning of	spells, reads	Í	of weather		dem.	sci.

	es aroun d usp	er	of the atmosphere at a given time and place.  Types of weather.  Elements / factors of weather.  - Sunshine  - Rainfall  - Cloud Cover  - Wind  - Humidity  - Temperature  Rainfall   Rainfall is water falling in separate drops from clouds.  Rainfall is the amount of rain water that falls in a certain area at a certain time.	weather. 2. Identifies the types of weather. 3. states the weather elements	writes and demonstrates meaning of words related to weather  2. Reads, internalize and writes texts and questions related to weather	Discussion  Observation  Brain storming	Identifying the types of weather.  Stating the elements of weather.	Care Awareness Fluency Concern	Garden .	Int. sci. syllab us bk 4
7 5	Weath er chang es aroun d us	The water cycle	WATER CYCLE (rain cycle) How rain is formed The sun heats water in water bodies and plants to produce water vapour Water vapour rises into the atmosphere.	The learner; 1. Describes the water cycle.  2. Differentiates between rain and rainfall. 3. Draws the structure of the water cycle.	The learner; 1. Pronounces, spells, reads writes and demonstrates meaning of words related to weather 2. Reads, internalize and	Guided discovery Discussion	Describing the water cycle.  Differentiating between a rain and rain fall.	Appreciation.  Care  Awareness	The school dem. Garden	Mk. Int. sci. pbk 4  Int. sci. syllab

				- Water vapour condenses to form clouds When the clouds become heavy, they form rain. An illustration of a water cycle.  Process A – Transpiration B – Evaporation C – Condensation		writes texts and questions related to weather	Observati on Brain storming	Drawing the structure of the water cycle.	Fluency Concern		us bk 4
7	6	Weath er chang es aroun d us	The water cycle	An experiment to show water cycle.  Things needed - A kettle of water - Burning charcoal - Iced bottle	The learner; 1. Describes an experiment to show the water cycle. 2. Identifies the processes involved in the experiment.	The learner; 1. Pronounces, spells, reads writes and demonstrates meaning of words related to water cycle 2. Reads, internalize and writes texts and questions related to water cycle.	Guided discovery  Discussion  Observati on  Brain storming	Describing an experiment on the water cycle.  Identifying the process involved in the water cycle.	Appreciation.  Care  Awareness  Fluency  Concern	A chart showin g an illustrati on of the water cycle.	Mk. Int. sci. pbk 4  Int. sci. syllab us bk 4
7	7	Weath	How to	How to measure	The learners;	The learner;	Guided	Describing	Appreciati-	A chart	Mk.
		er	measu	rainfall.	1. Describes the	1. Pronounces,	discovery	the way	on.	showin	Int.

	chang es aroun d us.	re rainfall	- Rainfall is measured by an instrument called a rain gauge Rainfall is measured in millimetres. A DIAGRAM OF A RAIN GAUGE  Importance of rainfall Rainfall cools the temperature It provides water for seeds. Dangers of too much rainfall Heavy rainfall causes floods that can destroy the environment Floods carry rubbish and soil into lakes and rivers.	way in which rainfall is measured. 2. Draws the structure of the rain gauge. 3. Gives the importance of rain to people. 4. States the danger of rainfall.	spells, reads writes and demonstrates meaning of words related to water cycle 2. Reads, internalize and writes texts and questions related to water cycle.	Discussion  Observation  Brain storming	rainfall is formed.  Drawing the diagram of the rain gauge.  Giving the importance of rain.  Stating the dangers of rainfall.	Care Awareness Fluency Concern	g an illustrati on of the water cycle.	sci. pbk 4  Int. sci. syllab us bk 4
8 1	Weath er chang es aroun d us	Clouds	Clouds - Clouds are a mass of condensed water vapour.  Types of clouds Cirrus - furthest in the sky.  Cumulus	The learners; 1. Gives the meaning of clouds. 2. Identifies the types of clouds. 3. Gives the	The learner; 1. Pronounces, spells, reads writes and demonstrates meaning of words related to weather chart	Guided discovery Discussion	Giving the meaning of clouds.  Identifying the types of clouds.	Appreciation.  Care  Awareness	A chart showin g an illustrati on of the water cycle.	Mk. Int. sci. pbk 4 Int.

				Stratus	importance of	2. Reads,					sci.
				Nimbus - lowest	clouds.	internalize and		Giving the			syllab
				clouds	4. Defines	writes texts and		importanc	Fluency		us bk
				Importance of	temperature.	questions	Observati	e of	,		4
				clouds.	5. Describes the	related to	on	clouds.			
				- They give us rain.	types of	weather chart			Concern		
				- They modify	thermometers.			Defining			
				weather (regulate				temperatur			
				temperature)			Brain	e.			
				Temperature:			storming				
				-Temperature is the							
				degree of hotness or				Describing			
				coldness of a body				the types			
				or a place.				of			
				- The instrument used				thermomet			
				to measure				ers.			
				temperature is called							
				a thermometer.							
				- Types of							
				thermometers.							
				- Clinical							
				thermometer							
				- six's thermometer							
				- wall thermometer							
8	2	Weath	Wind	Wind	The learner.	The learner;	Guided	Giving the	Appreciati-	An	Mk.
		er		⇒ Wind is moving air	1. Describes wind.	1. Pronounces,	discovery	meaning	on.	illustrati	Int.
		chang		Wind instruments:	2. State the role of	spells, reads		of wind		on of a	sci.
		es		a). Wind vane	a wind vane.	writes and		Clark and the	Care	wind	pbk 4
		aroun		⇒ It shows the	3. Draws the	demonstrates		Stating the		vane,	
		d us		direction where	structure of a	meaning of	D:	instrument	<b>A</b>	wind	
				wind is blowing	wind vane, wind	words related to	Discussion	use in	Awareness	sock	liet
				from.	sock, and	wind		windy		and	Int.
				b). Wind sock	anemometer.	2. Reads,		weather.		anemo	sci.

	<ul> <li>⇒ A wind sock and weather cock can show the direction of wind.</li> <li>c). Anemometer</li> <li>⇒ It is used to measure the speed of wind.</li> <li>⇒ it has cups which trap wind and rotate as wind blows.</li> <li>Uses of wind:</li> <li>⇒ Wind is used for winnowing:</li> <li>⇒ Wind brings cold air in warm places</li> <li>Disadvantages of wind:</li> <li>⇒ Strong wind leads to soil erosion.</li> <li>⇒ Strong wind destroys property.</li> </ul>	4. States the advantages and disadvantages of wind of wind.	internalize and writes texts and questions related to wind	Observati on Brain storming	Drawing the structure of a wind vane, wind sock and anemomet er  Stating the advantage and disadvanta ges of wind.	Fluency Concern	meter.	syllab us bk 4
8 3	WEATHER STATION  ⇒ What is a weather station?  ⇒ A weather station is a place where weather conditions are studied.	The learner; 1. Defines a weather station and weather forecast. 2. Draws a Stevenson screen	The learner; 1. Pronounces, spells, reads writes and demonstrates meaning of words related to a weather	Guided discovery Discussion	Giving the meaning of a weather station and weather forecast.	Appreciation.  Care  Awareness	An illustrati on of a Stevens on screen	Mk. Int. sci. pbk 4 Int.

			Weather forecast:  ⇒ This is the prediction of future weather changes.  The structure of a Stevenson screen	3. Identifies the weather instrument kept in a Stevenson screen.	station 2. Reads, internalize and writes texts and questions related to weather	Observati on	Drawing the structure of a Stevenson screen	Fluency Concern		sci. syllab us bk 4	
			<ul> <li>NB: The Stevenson screen is painted white so as to reflect heat.</li> <li>It is used to keep delicate weather instruments like:</li> <li>Thermometers</li> <li>Barometers</li> <li>Hygrometers</li> </ul>		forecast.	Brain storming	Identifying the instruments kept in a Stevenson screen.				
8 4	PERSO NAL HYGIE NE	PERSO NAL HYGIE NE	PERSONAL HYGIENE  ⇒ Personal hygiene is the general cleanliness of the body.  ⇒ Or personal hygiene is the keeping of the	The learner; 1. Defines personal hygiene. 2. States ways of keeping the body clean. 3. Identifies the	The learner; 1. Pronounces, spells, reads writes and demonstrates meaning of words related to Personal	Guided discovery Discussion	Defining personal hygiene. Stating ways of keeping the body	Appreciation.  Care  Awareness	Clean water A tooth brush	Mk. Int. sci. pbk 4	

				<ul> <li>body clean.</li> <li>Ways of keeping the body clean</li> <li>1. Bathing daily.</li> <li>2. Cutting finger nails short.</li> <li>3. Washing hands after using a latrine/ toilet.</li> <li>4. Washing clothes.</li> <li>5. Combing hair.</li> <li>6. Ironing clothes.</li> <li>Items used in keeping our bodies clean</li> <li>1. Clean water</li> <li>2. Tooth paste tooth brush</li> <li>3. Bathing sponge</li> <li>4. Towel</li> <li>5. dental floss</li> </ul>	items used to keep the body clean.	hygiene 2. Reads, internalize and writes texts and questions related to Personal hygiene	Observati on Brain storming	clean.  Identifying the items used to keep the body clean.	Fluency Concern	Tooth paste	sci. syllab us bk 4
8 5	5	Person al hygien e	Import ance of keepin g the body clean	Importance of keeping the body clean  ⇒ It helps to prevent skin diseases. ⇒ It helps to prevent bad smell caused by sweating.	The learner;  1. States the importance of keeping our bodies clean.  2. States the dangers of poor personal	The learner; 1. Pronounces, spells, reads writes and demonstrates meaning of words related to Personal	Guided discovery Discussion	Stating the importanc e of keeping our bodies clean.	Appreciation.  Care  Awareness	Clean water  A tooth brush	Mk. Int. sci. pbk 4
				Effects of poor personal hygiene  ⇒ It leads to bad body smell.	hygiene.	hygiene 2. Reads, internalize and writes texts and	Observati	Stating the dangers of poor personal	Fluency	Tooth paste	sci. syllab us bk 4

			T			
⇒It leads to skin	questions	on	hygiene			
diseases.	related to			Concern		
Keeping clothing and	Personal					
beddings clean	hygiene					
⇒ Beddings should		Brain				
be washed		storming				
regularly with						
clean water and						
soap.						
⇒ Clothes need to						
be ironed after						
washing in order to						
kill parasites and						
germs.						
Diagram of a child						
ironing						
Importance of						
keeping beddings						
clean.						
⇒ It prevents bad						
smell.						
$\Rightarrow$ It prevents						
parasites like lice,						
ticks and fleas.						