

KENYA INSTITUTE OF CURRICULUM DEVELOPMENT A skilled and Ethical Society

UPPER PRIMARY SCHOOL CURRICULUM DESIGN

AGRICULTURE AND NUTRITION

GRADE 4

First Published 2017

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NATIONAL GOALS OF EDUCATION

Education in Kenya should:

1. Foster nationalism and patriotism and promote national unity.

Kenya's people belong to different communities, races and religions, but these differences need not divide them. They must be able to live and interact as Kenyans. It is a paramount duty of education to help young people acquire this sense of nationhood by removing conflicts and promoting positive attitudes of mutual respect which enable them to live together in harmony and foster patriotism in order to make a positive contribution to the life of the nation.

2. Promote the social, economic, technological and industrial needs for national development.

Education should prepare the youth of the country to play an effective and productive role in the life of the nation.

a) Social Needs

Education in Kenya must prepare children for changes in attitudes and relationships which are necessary for the smooth progress of a rapidly developing modern economy. There is bound to be a silent social revolution following the wake of rapid modernisation. Education should assist our youth to adapt to this change.

b) Economic Needs

Education in Kenya should produce citizens with the skills, knowledge, expertise and personal qualities that are required to support a growing economy. Kenya is building up a modern and independent economy which is in need of an adequate and relevant domestic workforce.

c) Technological and Industrial Needs

Education in Kenya should provide learners with the necessary skills and attitudes for industrial development. Kenya recognises the rapid industrial and technological changes taking place, especially in the developed world. We can only be part of this development if our education system is deliberately focused on the knowledge, skills and attitudes that will prepare our young people for these changing global trends.

3. Promote individual development and self-fulfilment

Education should provide opportunities for the fullest development of individual talents and personality. It should help children to develop their potential interests and abilities. A vital aspect of individual development is the building of character.

4. **Promote sound moral and religious values.**

Education should provide for the development of knowledge, skills and attitudes that will enhance the acquisition of sound moral values and help children to grow up into self-disciplined, self-reliant and integrated citizens.

5. **Promote social equity and responsibility.**

Education should promote social equality and foster a sense of social responsibility within an education system which provides equal educational opportunities for all. It should give all children varied and challenging opportunities for collective activities and corporate social service irrespective of gender, ability or geographical environment.

6. Promote respect for and development of Kenya's rich and varied cultures.

Education should instill in the youth of Kenya an understanding of past and present cultures and their valid place in contemporary society. Children should be able to blend the best of traditional values with the changing requirements that must follow rapid development in order to build a stable and modern society.

7. Promote international consciousness and foster positive attitudes towards other nations.

Kenya is part of the international community. It is part of the complicated and interdependent network of peoples and nations. Education should therefore lead the youth of the country to accept membership of this international community with all the obligations and responsibilities, rights and benefits that this membership entails.

8. Promote positive attitudes towards good health and environmental protection.

Education should inculcate in young people the value of good health in order for them to avoid indulging in activities that will lead to physical or mental ill health. It should foster positive attitudes towards environmental development and conservation. It should lead the youth of Kenya to appreciate the need for a healthy environment.

LESSON ALLOCATION AT UPPER PRIMARY

S/No	Learning Area	Number of Lessons
1.	English	5
2.	Kiswahili / Kenya Sign Language	4
3.	Mathematics	5
4.	Religious Education	3
5.	Science & Technology	4
6.	Agriculture and Nutrition	4
7.	Social Studies	3
8.	Creative Arts	6
9.	Pastoral/Religious Instruction Programme	1
Total	· · ·	35

LEVEL LEARNING OUTCOMES

By the end of the Primary Education, the learner should be able to:

- a) Communicate appropriately using verbal and or non-verbal modes in a variety of contexts.
- b) Demonstrate mastery of number concepts to solve problems in day to day life
- c) Demonstrate social skills, moral and religious values for positive contribution to society
- d) Develop one's interests and talents for personal fulfilment
- e) Make informed decisions as local and global citizens of a diverse, democratic society in an interdependent world.
- f) Explore, manipulate, manage and conserve the environment effectively for learning and sustainable development
- g) Acquire digital literacy skills for learning and enjoyment.
- h) Appreciate the country's rich, diverse cultural heritage for harmonious living

ESSENCE STATEMENT

Agriculture and Nutrition is an integrated learning area comprising aspects of agriculture and home science. The learners will acquire knowledge, skills, attitudes and values related to conservation of resources, food production, hygiene and related production techniques. The learning area anchors on socio-economic pillar of Kenya Vision 2030 to promote health, hygiene, food and nutrition security through education. The curriculum will develop competencies in personal and environmental hygiene, foods and nutrition, basic clothing construction, laundry, crop and animal production and conservation of resources. The acquired knowledge, skills and attitudes will form grounds for further development of the competencies in junior school and beyond.

SUBJECT GENERAL LEARNING OUTCOMES

- 1. Participate actively in agricultural and household activities in conservation of resources.
- 2. Use scarce resources through innovative practices to contribute towards food and nutrition security.
- 3. Engage in food production processes for self-sustainability, health and economic development.
- 4. Adopt personal and environmental hygiene practices for healthy living.

- 5. Apply appropriate production techniques, innovative technologies, digital and media resources to enhance sustainable agricultural and household practices.
- 6. Appreciate agricultural and household skills as a worthy niche for hobby, career development, further education and training.

SUMMARY OF STRANDS AND SUB STRANDS GRADE 4

S/N	STRANDS	SUB STRANDS
1.0	Conservation of Resources	1.1 Soil Conservation
		1.2 Water Conservation
		1.3 Fuel Conservation
		1.4 Conserving Wild Animals
2.0	Food Production Processes	2.1 Direct Sowing of Tiny Seeds
		2.2 Uses of Domestic Animals
		2.3 Balanced Diet
		2.4 Boiling and Shallow Frying Food
3.0	Hygiene Practices	3.1 Personal Hygiene
		3.2 Domestic Hygiene
		3.3 Cleaning Personal Protective Equipment
4.0	Production Techniques	4.1 Making Tacking Stitches

1.0: CONSERVATION OF RESOURCES

1.0 Conservation	116-3			Key inquiry questions
of Resources	1.1 Soil Conservation (7 lessons)	 By the end of the sub strand, the learner should be able to: a) Identify suitable materials for making compost manure b) Prepare compost manure for farming c) Appreciate importance of compost manure in farming. 	 Learners are guided to: Discuss suitable materials for compost manure based on their local environment. Collect and compost suitable materials and make compost manure using heap method. Practise the learnt skills in making compost manure using slashed vegetation, kitchen wastes and any other available organic wastes and using it in their gardening activities. Learners to develop communication skills during the discussion, care for environment while collecting waste organic matter and unity while working together in the composting activity. 	How can composting conserve the environment?
-	and collaboration	-	skills as the learners discuss the process of preparing	compost
Pertinent and c Care for the envi Link to other su	ontemporary iss ironment as learn ibjects:	er utilize waste organic	in the preparation of compost manure. materials in the preparation of compost manure. kills to the waste disposal methods learnt in science a	

Strand	Sub strand	Specific learning outcomes	Suggested learning experiences	Suggested Key inquiry questions
1.0 Conservation of Resources	1.2 Water Conservation (7 lessons)	 By the end of the sub strand the learner should be able to: a) Describe drip irrigation as a way of conserving water b) Carry out drip irrigation to conserve water c) Appreciate use of drip irrigation in conserving water in farming. 	 Learners are guided to: Watch video clips or use print media or observe drip irrigation in neighbouring households to guide them discuss drip irrigation concept. Innovate drip equipment using water pipes and available containers and use the drip irrigation in gardening activities Learners develop creativity skills when innovating drip irrigation equipment, practice responsibility in task allocation and personal safety while working with tools and equipment. 	How does drip irrigation conserve water

Creativity and imagination: creativity skills in experimenting new ideas while innovating drip irrigation equipment.

Values:

Responsibility: undertaking tasks allocated in the innovative drip irrigation project.

Pertinent and contemporary issues:

Safety of self and others as the learners handle and work with tools and equipment in innovating drip irrigation.

Link to other subjects:

Learners relate construction skills in the construction of drip irrigation to skill in use of tools in science and technology.

Strand	Sub strand	Specific learning outcomes	Suggested learning experiences	Suggested Key inquiry questions
1.0 Conservation of Resources	1.3 Fuel Conservation (7 lessons)	 By the end of the sub strand the learner should be able to: a) Identify types of fuels used at home b) Use and conserve fuels in cooking c) Appreciate the importance of conserving fuel to minimize wastage of resources. 	 Learners are guided to: Discuss to enumerate the types of fuels such as <i>charcoal, firewood, gas, kerosene,</i> used at home. Practise ways of conserving fuels such as putting off fire when done and using fuel efficient equipment when cooking. Learners develop problem solving skills as they solve problems of fuel by reducing wastage in use of fuel, show responsibility by practicing advance preparation of foodstuffs, observe safety in use of fuel. 	How does reducing fuel wastage conserve our resources?

Core Competencies:

Critical thinking and problem solving: evaluation and decision making skills as learners explore ways of reducing wastage in use of fuels.

Values:

Responsibility: solving problems proactively as learners use fuels conservatively.

Pertinent and contemporary issues:

Safety of self and others as learners use fuels and related fires.

Link to other subjects:

Learners relate the skills in conservation of fuels to types and sources of energy learnt in science and technology.

Strand	Sub strand	Specific learning	Suggested learning experiences	Suggested Key
		outcomes		inquiry questions
1.0 Conservation	1.4 Conserving	By the end of the sub	Learners are guided to:	How does
of Resources	Wild Animals (8 lessons)	 strand the learner should be able to: a) Identify small wild animals that destroy crops b) Construct and use a scare crow to keep off small wild animals from crops c) Appreciate the importance of living better with small wild animals. 	 Brainstorm and share experiences on small wild animals such as <i>birds, hares, squirrels, monkeys,</i> that destroy crops. Discuss, construct a scarecrow using locally available materials and install the scarecrows in the immediate environment to keep off small wild animals. Learners develop creativity skills as they design a scare crow, demonstrate responsibility in allocating roles to construct and practice animal protection by safely keeping off the small wild animal. 	reducing fuel wastage conserve our resources?

Core Competencies:

Creativity and imagination: observation and experimentation skills as learners create scare crow to scare wild animals.

Values:

Responsibility: engaging in assigned roles and duties as learners construct the scare crow to keep off wild animals.

Pertinent and contemporary issues:

Conservation of biodiversity as learners construct scarecrow to keep off wild animals without killing them.

Link to other subjects:

Learners relate conservation of wild animals as part of natural resources learnt in social studies.

Assessment Rubric							
Indicator	Exceeds expectation	Meets expectation	Approaches expectation	Below expectation			
Ability to	Demonstrates	Demonstrates ability to	Demonstrates moderate	Demonstrates minimal			
demonstrate	exceptional ability to	express and present	ability to express and	ability to express and			
knowledge on	express and present	ideas on conservation of	present ideas on	present ideas on			
conservation of	ideas on conservation	soil, water, fuel and	conservation of soil,	conservation of soil,			
resources	of soil, water, fuel and	wild animals.	water, fuel and wild	water, fuel and wild			
	wild animals.		animals.	animals.			
Ability to	Creatively applies	Applies appropriate	Partially applies	Partially applies			
conserve resources	appropriate measures	measures to conserve	appropriate measures to	measures that require			
	to conserve resources	resources (soil, water,	conserve resources (soil,	improvement to conserve			
	(soil, water, fuels and	fuels and wild animals).	water, fuels and wild	resources (soil, water,			
	wild animals).		animals).	fuels and wild animals).			
Ability to show	Shows leadership,	Shows personal	Shows dutifulness in	Requires prompt to			
responsibility in	personal initiative and	initiative and	undertaking tasks in	undertake tasks in			
conservation of	dutifulness in	dutifulness in	conservation of resources	conservation of resources			
resources	undertaking tasks in	undertaking tasks in	(soil, water, fuel and wild	(soil, water, fuel and wild			
	conservation of	conservation of	animals).	animals).			
	resources (soil, water,	resources (soil, water,					
	fuel and wild	fuel and wild animals).					
	animals).						

Assessment Rubric

2.0 FOOD PRODUCTION PROCESSES

Strand	Sub strand	Specific learning outcomes	Suggested learning experiences	Suggested Key inquiry
2.0 Food Production Processes	2.1 Direct Sowing of Tiny Seeds (8 lessons)	 By the end of the sub strand the learner should be able to: a) Identify crops established through direct sowing of tiny seeds b) Sow tiny seeds in a finely prepared seedbed. c) Adopt direct sowing in establishment of food crops. 	 Learners are guided to: Discuss to enumerate food crops such as <i>carrots and millet</i> that are established through direct sowing of tiny seeds (<i>crops that do not require transplanting</i>). Sow the tiny seeds in a finely prepared ground or container seedbed. Learners develop learning to learn as they address challenges in establishing tiny seeds, develop tolerance and respect while undertaking the seedbed preparation task and resolve food security in growing a crop. 	questions How does direct sowing of tiny seeds enhance food production process?
Core Compete Learning to lear		ion as learners establish tiny se	eds in a prepared seedbed.	
Values:				
Respect: accom	modation of d	iverse opinions while the learned	ers undertake seed bed preparation tasks.	
Dentin and and		÷	1 1	

Pertinent and contemporary issues:

Food and nutritional security as learners grow crops on prepared seedbeds to contribute to food availability at household level.

Link to other subjects:

Learners relate the use of tools and equipment in preparation of seedbed and sowing tiny seeds to concepts of tools in making work easier learnt in science and technology.

Strand	Sub strand	Specific learning outcomes	Suggested learning experiences	Suggested Key inquiry questions
2.0 Food Production Processes	2.2 Uses of Domestic Animals (8 lessons)	 By the end of the sub strand the learner should be able to: a) Identify types of domestic animals in the community b) Relate various domestic animals to their uses c) Appreciate the importance of domestic animals for food production. 	 Learners are guided to: Share experiences on the types of domestic animals (cattle, sheep, goats, poultry) found in their community and their uses. Match the domestic animals to their uses (<i>cattle, sheep, goat and poultry</i>). Make class presentations using photos or other visuals importance of domestic animal. Learners develop self –efficacy as they confidently make class presentations, respect others while listening to the presentations and appreciate the uses of domestic animals 	How does domestic animal contribute to food production?
Core Compe Self-efficacy		nce as learners make presentation	ons on uses of domestic animals.	
Values: Respect: oper animals.	n mindedness	as learners listen and accommo	odate others opinions during presentations on importa	nce of domestic
	d contempor are as the learn	ary issues: ners appreciate importance of d	omestic animals to humans.	
Link to othe Learners rela		red in their community to know	vledge learnt in social studies on social economic acti	ivities.

Strand	Sub strand	Specific learning outcomes	Suggested learning experiences	Suggested Key inquiry questions
2.0 Food Production Processes	2.3 Balanced Diet (9 lessons)	 By the end of the sub strand the learner should be able to: a) Explain importance of eating a balanced diet b) Select food from different food-groups to make a balanced diet c) Appreciate the importance of eating a balanced diet. 	 Learners are guided to: Discuss or use digital devices to search for importance of eating a balanced diet (variety and proportion). Select foods from locally available foods that comprise a balanced diet. Learners to unite in making collaborative presentations of a meals with a balanced diet, and promote health awareness through the class presentations. 	How does variety in diet impact on health?
Values:	ion and collaborat	ion: team work as learners contrib s as learners select foods that com	ute in the discussion on importance of a balar prise balanced diet.	nced diet.
Health aware	er subjects:	learners discuss the importance of	f eating a balanced diet. dge learnt in science and technology on health	ty eating habits.

Strand	Sub strand	Specific learning outcomes	Suggested learning experiences	Suggested Key inquiry questions
2.0 Food Production Processes	2.4 Boiling and Shallow Frying Food (11 lessons)	 By the end of the sub strand the learner should be able to: a) Describe boiling and shallow frying as methods of cooking b) Cook food using boiling and shallow frying methods c) Embrace boiling and shallow frying in food production. 	 Learners are guided to: Watch video clip or demonstration on boiling and shallow frying methods of cooking. Cook and serve boiled and shallow fried foods. Learners to develop learning to learn by working cautiously while boiling and carrying out shallow frying processes, working resiliently while following cooking steps, promoting safety measures while working with fire and fats. 	How can we cook foods using boiling and frying methods?
Values: Responsibili Pertinent ar Safety of sel Link to othe	earn: organizing of ty: observes safety of contemporary f and others to avo er subjects:	y precautions when boiling and sl	foods.	g foods.

Assessment Rubric

Indicator	Exceeds expectation	Meets expectation	Approaches expectation	Below expectation
Ability to explain	Explains four food	Explains four food	Explains two to three	Explains less than two
food production	production processes	production processes	food production	food production
processes at	(direct sowing of	(direct sowing of seeds,	processes (direct sowing	processes (direct sowing
household level	seeds, uses of	uses of domestic	of seeds, uses of	of seeds, uses of
	domestic animals,	animals, balanced meal,	domestic animals,	domestic animals,
	balanced meal,	cooking by boiling and	balanced meal, cooking	balanced meal, cooking
	boiling or shallow	frying at household	by boiling and frying at	by boiling and frying at
	frying) at household	level	household level	household level
	level giving			
	exemplary details.			
Ability to carry	Carries out four food	Carries out four food	Carries out two or three	Carries out less than two
out various food	production processes	production processes	food production	food production
production	(direct sowing of	(direct sowing of seeds,	processes (direct sowing	processes (direct sowing
processes at	seeds, use of domestic	use of domestic	of seeds, use of domestic	of seeds, use of domestic
household level	animals, balancing a	animals, balancing a	animals, balancing a	animals, balancing a
	meal, cooking by	meal, cooking by	meal, cooking by boiling	meal, cooking by boiling
	boiling and frying) at	boiling and frying) at	and frying) at household	and frying) at household
	household level using	household level	level	level
	exemplary skills			
Ability to	Displays more than	Display four aspects of	Displays two or three	Applies integrity in less
demonstrate	four aspects of	integrity (utilizing	aspects of integrity	than two (utilizing
integrity in	integrity (utilizing	resources prudently, is	(utilizing resources	resources prudently, is
carrying out food	resources prudently,	accountable, displays	prudently, is accountable,	accountable, displays
	is accountable,	honesty and applies	displays honesty and	honesty and applies

production processesdisplays honesty and applies ethically acceptable procedures) in carrying out food production processes	ethically is acceptable	applies ethically	ethically acceptable
	procedures) in carrying	acceptable procedures) in	procedures) in carrying
	out food production	carrying out food	out food production
	processes	production processes	processes

3.0 HYGIENE PRACTICES

Strand	Sub strand	Specific learning outcomes	Suggested learning experiences	Suggested Key inquiry questions
3.0 Hygiene Practices	3.1 Personal Hygiene (10 lessons)	 By the end of the sub strand the learner should be able to: a) Identify health practices that promote personal hygiene b) Apply health practices that promote personal hygiene c) Embrace health practices to promote personal hygiene in daily life. 	 Learners are guided to: Brainstorm and enumerate practices that promote personal hygiene such as <i>hand</i> <i>washing, use of personal protective</i> <i>equipment, use of clean water and cleaning</i> <i>foods.</i> Demonstrate appropriate practices that promote personal hygiene such as <i>hand</i> <i>washing, use of personal protective</i> <i>equipment, use of clean water and cleaning</i> <i>foods.</i> Learners demonstrate good grooming (self- efficacy) while they take up responsibility as they carry out health practices. 	How does personal hygiene promote good health?
Core Compete Self-efficacy: p		grooming as learners apply sk	tills learnt on personal hygiene.	
Values:	. 1 . 1			
- · ·		· · · · · ·	ersonal hygiene and use personal protective equip	ment.
	contemporary		manual hyperana	
Frevention of C		liseases as learners practice pe	isonai nygiene.	

Link to other subjects:

Learners relate personal hygiene practices to prevention of communicable diseases learnt in science and technology.

Strand	Sub strand	Specific learning outcomes	Suggested learning experiences	Suggested Key inquiry questions
3.0 Hygiene Practices	3.2 Domestic Hygiene (9 lessons)	 By the end of the sub strand the learner should be able to: a) Describe the various methods used for cleaning home environment b) Use appropriate methods to clean home environment c) Appreciate a clean environment in promoting domestic hygiene 	 Learners are guided to: Discuss the methods of cleaning home environment <i>such as mopping, dusting,</i> <i>sweeping and disposal of refuse.</i> Apply the methods <i>such as mopping,</i> <i>dusting, sweeping and disposal of refuse</i> to maintain hygiene in the environment. The methods to be applied using improvised and locally available resources. Learners develop creativity in the use of improvised resources while cleaning, accountability in taking care of living places and environmental awareness in maintaining clean environment. 	How can we maintain hygienic environment?

Core Competencies:

Creativity and imagination: thoughtful choices as learners use improvised and locally available cleaning resources.

Values:

Responsibility: accountability as learners engage in activities of cleaning home environment.

Pertinent and contemporary issues:

Environmental awareness as learners maintain clean health environment.

Link to other subjects:

Learners relate clean environment to control of communicable diseases learnt in science and technology.

Strand	Sub strand	Specific learning outcomes	Suggested learning experiences	Suggested Key inquiry questions		
3.0 Hygiene Practices	3.3 Cleaning Personal Protective Equipment (9 lessons)	 By the end of the sub strand the learner should be able to: a) Identify personal protective equipment in day to day life b) Clean personal protective equipment for hygiene purposes c) Appreciate clean personal protective equipment in promoting hygiene. 	 Learners are guided to: Search for information or observe a demonstration to identify common personal protective equipment <i>such as gloves, dust masks, gum boots, head gear, overall and canvas shoes.</i> Apply appropriate methods to clean personal protective equipment such as <i>gumboots or canvas shoes.</i> Learners develop digital literacy as they search for personal protective equipment, responsibility as they care for personal protective items, and personal safety skills as they exercise caution in the cleaning activity. 	How does cleaning of personal protective equipment promote hygiene?		
Digital litera Values: Responsibil Pertinent a Personal saf Link to oth	Core Competencies: Digital literacy: use of digital technology as learners search for information on personal protective equipment.					

Assessment Rubric

Indicator	Exceeds expectation	Meets expectation	Approaches expectation	Below expectation
Ability to	Describes three practices	Describes three	Describes two practices	Describes less than two
describe	(personal hygiene,	practices (personal	(personal hygiene,	practices (personal
practices that	domestic hygiene and	hygiene, domestic	domestic hygiene and	hygiene, domestic
promote	cleaning personal PPEs)	hygiene and cleaning	cleaning personal PPEs)	hygiene and cleaning
hygiene	in exemplary details to	personal PPEs) to	to promote hygiene	personal PPEs) to
	promote hygiene	promote hygiene		promote hygiene
Ability to apply health practices to promote hygiene	Applies three health practices (personal hygiene, domestic hygiene and cleaning personal PPEs) to promote hygiene using both conventional and innovative approaches.	Applies three health practices (personal hygiene, domestic hygiene and cleaning personal PPEs) to promote hygiene	Applies two health practices (personal hygiene, domestic hygiene and cleaning personal PPEs) to promote hygiene	Applies less than two health practices (personal hygiene, domestic hygiene and cleaning personal PPEs) to promote hygiene
Ability to responsibility in health practices to promote hygiene	Shows leadership qualities in caring and observing safety in undertaking health practices that promote hygiene	Shows care and observes safety in undertaking health practices that promote hygiene	Shows care or observes safety in undertaking health practices that promote hygiene	Shows care or observes safety with need for some guiding support to undertake health practices.

4.0 PRODUCTION TECHNIQUES

Strand	Sub strand	Specific learning outcomes	Suggested learning experiences	Suggested Key inquiry questions
4.0 Production 4.1 Making Techniques Tacking Stitches (11 lessons)		 By the end of the sub strand the learner should be able to: a) Identify the types of tacking stitch in sewing b) Make an item using tacking stitches c) Appreciate the importance of tacking stitches. 	 Learners are guided to: Observe samples of tacking stitches (even tacking; long and short tacking) used in sewing. Make sample item such as a handkerchief or scarecrow clothing using tacking (even tacking or long and short stitches) stitches. Learners apply creativity and innovativeness in making an item, demonstrate unity while sharing sewing and exercise personal safety while working with sharp sewing tools. 	How can we use tacking stitches in making items?
		imentation skills as learners	observe, innovate and try out on tacking stitche	es.
Values: Unity: display of	team spirit as le	arners share resources in the	making of tacking stitches.	
Pertinent and co Safety of self and		ues: rs use needles and other shar	p tools in sewing task.	
Link to other su Leaners relate sk	U	materials and precision in ta	cking stitches to measurements in mathematics	5.

Assessment Rubric

Indicator	Exceeds expectation	Meets expectation	Approaches expectation	Below expectation
Ability to identify	Identify two types of	Identify two types of	Identify one type of	Identify one type of
the types of	tacking stitches used	tacking stitches used in	tacking stitches used in	tacking stitches used in
tacking stitches	in sewing with details	sewing	sewing	sewing when given some
used in sewing	that relate to their			prompt cues.
	applications.			
Ability to make	Creatively makes an	Makes an item using	Makes an item using	Makes an incomplete
an item using	item using tacking	tacking stitches that are	tacking stitches that are	item using tacking
tacking stitches	stitches that are firm	firm	loose	stitches that are loose.
Ability to work in unity in making an item	Exhibits more than three aspects of unity (sharing resources, working in teams, appreciating efforts of others) while making an item	Exhibits three aspects of unity (sharing resources, working in teams, appreciating efforts of others) while making an item	Exhibits two aspects of unity (sharing resources, working in teams, appreciating efforts of others) while making an item	Exhibits less than two aspects of unity (sharing resources, working in teams, appreciating efforts of others) while making an item

APPENDIX 1: COMMUNITY SERVICE LEARNING PROJECT

CSL at Upper Primary (Grade 4-6)

At this level, the goal of the CSL activity is to provide linkages between concepts learnt in the various Learning Activities and the real life experiences. Learners begin to make connections between what they learn and the relevance to their daily life. CSL is hosted in the Social studies learning area. The implementation of the CSL activity is a collaborative effort where the class teacher coordinates and works with other subject teachers to design and implement the integrated CSL activity. Though they are teacher-guided, the learners should progressively be given more autonomy to identify problems and come up with solutions. The safety of the learners should also be taken into account when selecting the CSL activity. The following steps for the integrated CSL activity should be staggered across the school terms:

Steps in carrying out the integrated CSL activity

1) Preparation

- Map out the targeted core competencies, values and specific learning areas skills for the CSL activity
- Identify resources required for the activity (locally available materials)
- Stagger the activities across the term (Set dates and time for the activities)
- Communicate to learners, parents/caregivers/guardians, school administration, teachers and other relevant stakeholders in the school community
- Identify and develop assessment tools

2) Implementation CSL Activity

- Assigning roles to learners.
- Ensure every learner actively participates in the activity
- Observe learners as they carry out the CSL activity and record feedback.
- Use an appropriate assessment tool to assess both the process and the product (Assess learner's work from the beginning to the end product)
- Assess the targeted core competencies, values and subject skills.

3) Reflection on the CSL Activity

Conduct a self-evaluation session with learners on the integrated CSL activity undertaken by discussing the following:

- what went well and why
- what did not go well and why,
- what can be done differently next time
- what they have learnt.

There will be **one** integrated CSL activity that will be conducted **annually.** The thematic areas for the integrated CSL activity will be derived from the broader categories of the PCIs and concepts from the various Learning Areas. Teachers are expected to vary the themes yearly to allow learners to address different PCIs within their contexts. There should be a linkage between the skills from the learning areas and the themes.

The integrated CSL activity will take a Whole School Approach (WSA) where the entire school community is involved (learners, parents/caregivers/guardians, school administration, teachers). Parents/caregivers/guardians are key stakeholders in the planning and execution of the CSL activity. Although the teacher takes the lead role in the planning and integration of the CSL activity, learners will be expected to participate actively in the whole process.

The CSL activity provides an opportunity for the development of core competencies and the nurturing of various values. The teacher is expected to vary the core competencies and values emphasised in the activity yearly.

Assessment of the CSL Activity

Assessment of the integrated CSL activity will focus on 3 components namely: skills from various learning areas applied in carrying out the activity, and core competencies and values demonstrated. Assessment should focus on both the process and end product of the CSL activity. The teacher will assess learners in groups using various tools such as an observation schedule, checklist or rating scale or any other appropriate tool.

APPENDIX II: LIST OF ASSESSMENT METHODS, LEARNING RESOURCES AND SUGGSTED ASSESSMENT METHODS

Strand	Suggested Assessment Methods	Suggested Learning Resources	Suggested Non-formal Activities
1.0 Conservation of Resources	-Observation of learning -Tests (written and oral) -Project	-Suitable organic materials for composting such as slashed vegetation, kitchen wastes and animal wastes, digging tools such as jembes and spade, metal pipes, plastic pipes, assorted containers such bottles, buckets and Jerri cans, mulching materials such as dry grass, suitable cover crop, Stakes for erecting shade, Charts, pictures and video clips, cooking pans and pots suitable materials for making a scare crow such as sticks or pieces of timber, nails, threads and wires, stuffing materials and old clothes, wild animal repellants such as smoke and smelly substances, resource person, materials for controlling soil erosion such as stones, wire mesh, poles, twigs. materials for making physical	Collect suitable composting materials from the environment, -Visit gardens in the neighbourbood to observe water conservation measure and integrated farming. -learners to initiate soil conservation measures in the school based on common forms of erosion in the environment. -learners to initiate water harvesting and conservation based on common form of water wastage points in the school. -Learners to initiate bird feeding table to attract and nourish wild birds using waste foods. -Learners debate on advantages and disadvantages of fuels. -Making exhibitions of fuel saving energy cookers, improvised baking

		deterrents such as innovation lights, deflectors, safe traps.	ovens, simple hand washing facilities, deterrents
2.0 Food Production Processes	Observation of learning -Tests (written and oral) -Project	Container or ground gardens/ open spaces for gardening, tiny seeds such as carrots and millet, garden tools and equipment such as pangas, jembes and forked jembes, watering cans, charts, photographs or video clips on domestic animals, pictures, video clips, different types of foodstuffs, kitchen tools and equipment (cooking pans and pots, chopping boards, kitchen knife, wooden spoon, frying spoon), suitable frying equipment and materials, source of heat, resource person. Suitable vegetable seeds in the locality, assorted cereals and pulses, natural preservatives such as ash, air tight containers, small domestic animal such as rabbit or guinea pig, improvised feeders and waterers, housing structure for the small domestic animals, variety of fruits and vegetables, drying rack,	-Participate in 4k clubs, ASK shows and famer's days -Learners make presentations in assemblies and open days on benefits of eating organically grown foods. -Learners create talking walls on various themes to educate the community -create journals and logs on healthy eating habits. -peer teach other on use and care of kitchen equipment.

		netting materials, improvised	
		baking equipment,	
3.0 Hygiene Practices	Observation of	Hand washing materials and	-Learners draw posters on washing
	learning	equipment, variety of PPEs(gloves,	of hands.
	-Tests (written and	masks, gumboots, head gear,	-learners make leaky tins of tippy
	oral)	overall,), Cleaning materials and	taps for washing hands and place
	-Project	equipment such as buckets/basin,	them in the different types of the
	5	brooms, brushes, floor clothes,	school compound.
		detergent and clean water, canvas	-Compose and sing Usafi songs and
		shoes, resource person, pictures or	poems on good grooming.
		videos on ways good grooming,	
		different surfaces in the home	
		environment such as cemented,	
		tiled, earthen and wooden), fast and	
		white coloured items, clothe lines,	
		pegs. Stain removal agents	
4.0 Production	Observation of	Needle work tools such as needles,	-Use clubs to sensitize the school
Techniques	learning	crocheting hooks, scissors, tape	community on repair of garments.
reeninques	-Tests (written and	measures, sewing thread, yarn,	-sensitize learners in health clubs on
	oral)	dress maker pins, fabric, pin	stain removal.
	-Project	cushion, thimbles., sacks, plastic	Draw pictures of different needle
	110,000	bottles, walls, wooden frames,	work tools.
		topsoil, manures, poles, plastic	-carry out an exhibition to display
		1	crotched items.
		sheet, offcuts/timber, top soil,	crotched items.
		manures,	