

KENYA INSTITUTE OF CURRICULUM DEVELOPMENT

A skilled and Ethical Society

UPPER PRIMARY SCHOOL CURRICULUM DESIGN

AGRICULTURE AND NUTRITION

GRADE 4

Firet	Duh	lished	201	7
$\Gamma \Pi SL$	run	usnea	$\angle U$	١/

Revised 2024

All rights reserves. No part of this book may be reproduced, stored in a retrieval system or transcribed, in any form or by any means, electronic, mechanical, photocopy, recording or otherwise, without the prior written permission of the publisher.

ISBN:

Published and printed by Kenya Institute of Curriculum Development

TABLE OF CONTENTS

NATIONAL GOALS OF EDUCATION	i
LESSON ALLOCATION AT UPPER PRIMARY	
LEVEL LEARNING OUTCOMES	v
ESSENCE STATEMENT	v
SUBJECT GENERAL LEARNING OUTCOMES	v
1.0: CONSERVATION OF RESOURCES	2
2.0 FOOD PRODUCTION PROCESSES	7
3.0 HYGIENE PRACTICES	. 14
4.0 PRODUCTION TECHNIQUES	. 18
APPENDIX 1: COMMUNITY SERVICE LEARNING PROJECT	. 20

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 Per week
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

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

- 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 the use of 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 Growing fruits
		2.3 Uses of Domestic Animals
		2.4 Balanced Diet
		25 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

Strand	Sub strand	Specific learning outcomes	Suggested learning experiences	Suggested Key inquiry questions
1.0 Conservation 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. 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?

Core Competencies to be developed:

Communication and collaboration: speaking and listening skills as the learners discuss the process of preparing compost manure.

Values:

Unity: working together striving to achieve common goal in the preparation of compost manure.

Pertinent and contemporary issues:

Care for the environment as learner utilize waste organic materials in the preparation of compost manure.

Link to other subjects:

Learners relate the environmental resource conservation skills to the waste disposal methods learnt in Science and Technology.

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 Develop creativity skills when innovating drip irrigation equipment; practice responsibility in task allocation; and personal safety while working with tools and equipment. 	How do we use drip irrigation to conserve water?

Core Competencies:

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	Suggested learning experiences	Suggested Key
		outcomes		inquiry
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</i>, <i>firewood</i>, <i>gas</i>, <i>kerosene</i>, used at home. Practise ways of conserving fuels such as putting off fire when done and using fuel efficient equipment when cooking. 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	strand the learner should	Brainstorm and share experiences	reducing fuel
of resources	(8 lessons)	be able to: a) Identify small wild animals that destroy crops b) Construct and use a scarecrow to keep off small wild animals from crops c) Appreciate the importance of living better with small wild animals.	on small wild animals such as birds, hares, squirrels, monkeys, 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. • Develop creativity skills as they design a scare crow, demonstrate responsibility in allocating roles to	wastage conserve our resources?
		uninidi).	construct and practice animal protection by safely keeping off the small wild animal.	

Core Competencies:

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

Values:

Responsibility: engaging in assigned roles and duties as learners construct the scarecrow 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).			

2.0 FOOD PRODUCTION PROCESSES

Strand	Sub strand	Specific learning outcomes	Suggested learning experiences	Suggested Key inquiry questions
2.0 Food	2.1 Direct	By the end of the sub	Learners are guided to:	How does direct
Production Processes	Sowing of Tiny Seeds	strand the learner should be able to: a) Identify crops established through	• Discuss to enumerate food crops such as carrots and millet that are established through direct sowing of tiny seeds (crops that do not require transplanting).	sowing of tiny seeds enhance food production process?
	(8 lessons)	direct sowing of tiny seeds b) Sow tiny seeds in a finely prepared seedbed. c) Adopt direct sowing in establishment of food crops.	 Sow the tiny seeds in a finely prepared ground or container seedbed. 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. 	

Core Competencies:

Learning to learn: own reflection as learners establish tiny seeds in a prepared seedbed.

Values:

Respect: accommodation of diverse opinions while the learners undertake seed bed preparation tasks.

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 Growing fruits (16 lessons)	By the end of the sub strand the learner should be able to: a) Identify fruits that can grow the locality, b) Grow a fruit crop suited in the locality, c) Appreciate the importance of consuming fruits for nutrition.	 Learners are guided to: Brainstorm and share information on different types of fruits that can grow in their locality. Establish and take care a fruit crop that can suitably grow in the locality such as woody fruit tree (for example, tree tomato and guava) and climbing fruits (such as passion fruit, kiwi, grapes, black berries, rasp berries), Develop self-efficacy when they produce own fruits for consumption; responsibility while caring for the growing fruits; and promote health by consuming fruits 	How do we grow fruits?

Core Competencies:

Self-efficacy: self- confidence as learners realise the benefit of growing own fruits for consumption.

Values:

Responsibility: as learners take care of growing fruits.

Pertinent and contemporary issues:

Health promotion awareness as learners appreciate the importance of consuming fruits.

Link to other subjects:

Learners relate growing of fruits as an economic activity as learnt in Social Studies.

Strand	Sub strand	Specific learning outcomes	Suggested learning experiences	Suggested Key inquiry questions
2.0 Food Production	2.3 Uses of Domestic	By the end of the sub strand the learner should be able	Learners are guided to:	How does domestic
Processes	Animals (8 lessons)	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.	 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 (cattle, sheep, goat and poultry). Make class presentations using photos or other visuals importance of domestic animal. Develop self –efficacy as they confidently make class presentations; respect others while listening to the presentations; and appreciate the uses of domestic animals 	animal contribute to food production?

Core Competencies:

Self-efficacy: self-confidence as learners make presentations on uses of domestic animals.

Values:

Respect: open mindedness as learners listen and accommodate others opinions during presentations on importance of domestic animals.

Pertinent and contemporary issues:

Animal welfare as the learners appreciate importance of domestic animals to humans.

Link to other subjects:

Learners relate animals reared in their community to knowledge learnt in Social Studies on social economic activities.

Strand	Sub strand	Specific learning outcomes	Suggested learning experiences	Suggested Key inquiry questions
2.0 Food	2.4 Balanced	By the end of the sub strand	Learners are guided to:	How does a
Production Processes	Diet (9 lessons)	 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. 	 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. Exhibit unity in making collaborative presentations of a balanced meal, and promote health awareness through the class presentations. 	balanced diet impact on health?

Core Competencies:

Communication and collaboration: team work as learners contribute in the discussion on importance of a balanced diet.

Values:

Unity: collaboration with others as learners select foods that comprise balanced diet.

Pertinent and contemporary issues:

Health awareness promotion as learners discuss the importance of eating a balanced diet.

Link to other subjects:

Learners relate the importance of eating balanced diet to knowledge learnt in Science and Technology on healthy eating habits.

Strand	Sub strand	Specific learning outcomes	Suggested learning experiences	Suggested Key inquiry questions
2.0 Food Production Processes	2.5 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. Demonstrate learning to learn by working cautiously while boiling and shallow frying; following cooking steps; and promoting safety measures while working with fire and fats. 	How can we cook foods using boiling and frying methods?

Core Competencies:

Learning to learn: organizing own learning as learners apply laid down procedure in boiling and shallow frying foods.

Values:

Responsibility: observes safety precautions when boiling and shallow frying foods.

Pertinent and contemporary issues:

Safety of self and others to avoid accidents as they boil and fry foods.

Link to other subjects:

Learners relate handling of accidents to skills learnt of first aid in Science and Technology.

Assessment Rubric

Indicator	Exceeds expectation	Meets expectation	Approaches expectation	Below expectation
Ability to explain	Explains five food	Explains five food	Explains two to four food	Explains less than two
food production	production processes	production processes	production processes	food production
processes at	(direct sowing of	(direct sowing of seeds,	(direct sowing of seeds,	processes (direct sowing
household level	seeds, growing of	growing of fruits, uses	growing of fruits, uses of	of seeds, growing of
	fruits, uses of	of domestic animals,	domestic animals,	fruits, uses of domestic
	domestic animals,	balanced diet, cooking	balanced diet, cooking by	animals, balanced diet,
	balanced diet, boiling	by boiling and frying at	boiling and frying at	cooking by boiling and
	or shallow frying) at	household level	household level	frying at household level
	household level			
	giving exemplary			
	details.			
Ability to carry	Carries out five food	Carries out five food	Carries out two or four	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 household level	seeds, growing of fruits, use of domestic animals, balancing a meal, cooking by boiling and frying) at household level using exemplary skills	growing of fruits, use of domestic animals, balancing a meal, cooking by boiling and frying) at household level	of seeds, growing of fruits, use of domestic animals, balancing a meal, cooking by boiling and frying) at household level	of seeds, growing of fruits, use of domestic animals, balancing a meal, cooking by boiling and frying) at household level
Ability to demonstrate integrity in carrying out food production processes	Displays more than four aspects of integrity (utilizing resources prudently, is accountable, displays honesty and applies ethically acceptable procedures) in carrying out food production processes	Display four aspects of integrity (utilizing resources prudently, is accountable, displays honesty and applies ethically is acceptable procedures) in carrying out food production processes	Displays two or three aspects of integrity (utilizing resources prudently, is accountable, displays honesty and applies ethically acceptable procedures) in carrying out food production processes	Applies integrity in less than two (utilizing resources prudently, is accountable, displays honesty and applies ethically acceptable procedures) in carrying out food production 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 hand washing, use of personal protective equipment, use of clean water and cleaning foods. Demonstrate appropriate practices that promote personal hygiene such as hand washing, use of personal protective equipment, use of clean water and cleaning foods. Demonstrate self -efficacy through practising good grooming; and responsibility as they carry out health practices. 	How does personal hygiene promote good health?

Core Competencies:

Self-efficacy: practice of good grooming as learners apply skills learnt on personal hygiene.

Values:

Responsibility: taking charge of own body as they practice personal hygiene and use personal protective equipment.

Pertinent and contemporary issues:

Prevention of communicable diseases as learners practice personal hygiene.

Link to other subjects:

Strand	Sub strand	Specific learning outcomes	Suggested learning experiences	Suggested
ovi unu		specific rearring outcomes	Suggested rearrang experiences	Key inquiry questions
3.0 Hygiene Practices	3.2 Domestic Hygiene	By the end of the sub strand the learner should be able to:	Learners are guided to:	How can we maintain
Fractices	(9 lessons)	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	 Discuss the methods of cleaning home environment such as mopping, dusting, sweeping and disposal of refuse. Apply the methods such as mopping, dusting, sweeping and disposal of refuse to maintain hygiene in the environment. The methods to be applied using improvised and locally available resources. Develop creativity in the use of improvised resources while cleaning; accountability in taking care of living places; and environmental awareness in maintaining clean environment. 	hygienic in the home 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:

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 such as gloves, dust masks, gum boots, head gear, overall and canvas shoes. Apply appropriate methods to clean personal protective equipment such as gumboots or canvas shoes. 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?

Core Competencies:

Digital literacy: use of digital technology as learners search for information on personal protective equipment.

Values:

Responsibility: safety and care of self as learners clean personal protective equipment.

Pertinent and contemporary issues:

Personal safety as learners exercise caution while undertaking cleaning activity.

Link to other subjects:

Learners relate use of personal protective equipment to personal safety skills learnt in Science and Technology.

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	Applies three health	Applies three health	Applies two health	Applies less than two
health practices	practices (personal	practices (personal	practices (personal	health practices (personal
to promote	hygiene, domestic	hygiene, domestic	hygiene, domestic	hygiene, domestic
hygiene	hygiene and cleaning	hygiene and cleaning	hygiene and cleaning	hygiene and cleaning
	personal PPEs) to	personal PPEs) to	personal PPEs) to	personal PPEs) to
	promote hygiene using	promote hygiene	promote hygiene	promote hygiene
	both conventional and			
	innovative approaches.			
Ability to	Shows leadership	Shows care and	Shows care or observes	Shows care or observes
demonstrate	qualities in caring and	observes safety in	safety in undertaking	safety with need for
responsibility	observing safety in	undertaking health	health practices that	some guiding support
while	undertaking health	practices that promote	promote hygiene	that undertake health
undertaking	practices that promote	hygiene		practices.
health practices	hygiene			
that promote				
hygiene				

4.0 PRODUCTION TECHNIQUES

Strand	Sub strand	Specific learning outcomes	Suggested learning experiences	Suggested Key inquiry questions
4.0 Production Techniques	4.1 Making 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. Apply creativity and innovativeness in making an item; demonstrate unity while sharing sewing items; and exercise personal safety while working with sharp sewing tools. 	How can we use tacking stitches in making items?

Core Competencies:

Creativity and imagination: experimentation skills as learners observe, innovate and try out on tacking stitches.

Values:

Unity: display of team spirit as learners share resources in the making of tacking stitches.

Pertinent and contemporary issues:

Safety of self and others as learners use needles and other sharp tools in sewing task.

Link to other subjects:

Leaners relate skills in measuring materials and precision in tacking stitches to measurements in Mathematics.

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 teacherguided, 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	Suggested Learning Resources	Suggested Non-formal Activities
	Methods		
1.0 Conservation of	-Observation of	-Suitable organic materials for	Collect suitable composting
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,	Collect suitable composting materials from the environment, -Visit gardens in the neighbourbood to observe water conservation measure and integrated farminglearners to initiate soil conservation measures in the school based on common forms of erosion in the environmentlearners to initiate water harvesting and conservation based on common form of water wastage points in the schoolLearners to initiate bird feeding table to attract and nourish wild
		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	birds using waste foodsLearners debate on advantages and disadvantages of fuelsMaking exhibitions of fuel saving energy cookers, improvised baking

	deflectors, safe traps.	facilities, deterrents
vation of	Container or ground gardens/ open	-Participate in 4k clubs, ASK shows
ng	spaces for gardening, tiny seeds	and famer's days
(written and	such as carrots and millet, fruit	-Learners make presentations in
	seeds or seedlings, garden tools and	assemblies and open days on
et	equipment such as pangas, jembes	benefits of eating organically grown
	and forked jembes, watering cans,	foods.
	charts, photographs or video clips	-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.
		1 1
	-	
	•	
	1 *	
	_	
	et	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

		Conita and reseated to domine and to	
		fruits and vegetables, drying rack,	
		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
		brooms, brushes, floor clothes,	school compound.
		detergent and clean water, canvas	-Compose and sing <i>Usafi</i> 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.
•	-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
		bottles, walls, wooden frames,	work tools.
		topsoil, manures, poles, plastic	-carry out an exhibition to display
		sheet, offcuts/timber, top soil,	crotched items.
		manures,	ordened memo.
		illuliai ee,	1

