

KENYA INSTITUTE OF CURRICULUM DEVELOPMENT A Skilled and Ethical Society

JUNIOR SCHOOL CURRICULUM DESIGN

AGRICULTURE AND NUTRITION

GRADE 7

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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 instil 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 JUNIOR SCHOOL

S/No	Learning Area	Number of Lessons
1.	English	5
2.	Kiswahili / Kenya Sign Language	4
3.	Mathematics	5
4.	Religious Education	4
5.	Social Studies	4
6.	Integrated Science	5
7.	Pre-Technical Studies	4
8.	Agriculture and Nutrition	4
9.	Creative Arts and Sports	5
	Total	40

* 1 lesson is set aside for the Pastoral/Religious Instruction Programme.

LEARNING OUTCOMES FOR JUNIOR SCHOOL

By end of Junior School, the learner should be able to:

- 1. Apply literacy, numeracy and logical thinking skills for appropriate self-expression.
- 2. Communicate effectively, verbally and non-verbally, in diverse contexts.
- 3. Demonstrate social skills, spiritual and moral values for peaceful co-existence.
- 4. Explore, manipulate, manage and conserve the environment effectively for learning and sustainable development.
- 5. Practise relevant hygiene, sanitation and nutrition skills to promote health.
- 6. Demonstrate ethical behaviour and exhibit good citizenship as a civic responsibility.
- 7. Appreciate the country's rich and diverse cultural heritage for harmonious co-existence.
- 8. Manage pertinent and contemporary issues in society effectively.
- 9. Apply digital literacy skills for communication and learning.

ESSENCE STATEMENT

Agriculture and nutrition is a learning area that anchors on the United Nation Sustainable development goals and the socioeconomic pillar of Kenya Vision 2030 to promote health, hygiene, food and nutrition security through education. It is an integrated learning area comprising of agriculture and home science concepts introduced in the upper primary curriculum. The learners will deepen the acquired knowledge, skills, attitudes and values in conservation of resources, food production, hygiene and innovative production techniques. The curriculum will enrich learner's competencies in conservation of resources, crop and animal production, foods and nutrition, personal and environmental hygiene, basic clothing construction and laundry work. Agriculture and nutrition curriculum will form a grounds for specialization in respective career pathways in senior school and beyond.

GENERAL LEARNING OUTCOMES

By end of Junior 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 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

Strands	Sub strands
1.0 Conservation of Resources	1.1 Controlling soil pollution
	1.2 Constructing water retention structures
	1.3 Conserving food nutrients
	1.4 Growing trees
2.0 Food Production Processes	2.1 Preparing planting site and establishing crop
	2.2 Selected crop management practices
	2.3 Preparing animal products: Eggs and honey
	2.4 Cooking: Roasting and steaming
3.0 Hygiene Practices	3.1 Hygiene in rearing animals
	3.2 Laundry: Loose coloured items
4.0 Production Techniques	4.1 Sewing Skills: Knitting
	4.2 Constructing frames suspended garden
	4.3 Adding value to crop produce
	4.4 Making homemade soap

STRAND 1.0: CONSERVATION OF RESOURCES

Strand	Sub Strand	Specific Learning	Suggested Learning Experiences	Suggested
		Outcomes		Key Inquiry
				Question(s)
1.0 Conservation	1.1 Controlling	By the end of the sub	Learners are guided to:	How can
of Resources	Soil Pollution	strand the learner should	• search and watch a video clip or print	household
		be able to:	media on causes of soil pollution and	practices
		a) explain the causes of	then share experiences on causes of soils	cause soil
	(7 lessons)	soil pollution in	pollution such as <i>waste water</i> , <i>excessive</i>	pollution?
		gardening,	use of artificial fertilizers, agricultural	
		b) control soil pollution	chemicals and plastic wastes.	
		in home environment,	• engage in safe soil pollution control	
		c) demonstrate	practices such as safe disposal of	
		responsibility in	household waste water, used chemical	
		using safe farming	containers and plastic wastes.	
		practices to conserve	• create awareness messages against	
		the soil.	improper disposal of waste water,	
			dumping of soil pollutants, used	
			chemical containers and plastic wastes	
			and use of correct types and amounts of	
			farm chemicals and fertilizers.	
			• citizenship as learners promote	
			awareness of soil conservation. value of	
			patriotism as learners are aware of	
			environment and environmental	

		protection as they create awareness			
		against soil pollution.			
Core competencies:					
Citizenship: civic ski	ills as learners pror	note control of soil pollution to enhance soil conservation in the community	у.		
Values:					
Patriotism: awareness of own responsibility as the learners engage in activities that promote soil pollution control.					
Pertinent and contemporary issues:					
Environmental conservation as learners protect soil against pollution.					
Link to other subjects:					
Learners relate soil pollution to other forms of environmental pollution learnt in science and technology.					

Strand	Sub strand	Specific learning outcomes	Suggested learning experiences	Suggested Key inquiry question(s)
1.0 Conservation of Resources	1.2 Constructing Water Retention Structures (8 lessons)	 By the end of the sub strand the learner should be able to: a) describe how surface run-off can be used in gardening b) construct water retention structures to conserve surface runoff, c) adopt utilization of surface run-off in gardening. 	 Learners are guided to: search for information and discuss how surface run-off can be conserved in structures such as water retention ditches and water retention pits for gardening. construct retention ditches or retention pits for water conservation and establish a crop of their choice such as a <i>banana sucker, sugarcane,</i> <i>napier grass or arrowroot.</i> problem solving skill as learners solve the destructions caused by run- off, value of unity when working in groups to construct the retention structure, environmental protection and conservation while learners conserve run-off. 	 How can surface run-off be conserved for gardening purposes? How does construction of water retention structures conserve water?
to control run-off.	S: Critical thinking a	nd problem solving: decisi	on making skills as learners construct water	retention structures

Values: Unity: collaboration with others as learners engage in project activities to construct water retention structures.

Pertinent and contemporary issues: Environmental protection as learners construct water retention structures to harness run-off and use it in gardening activities.

Link to other subjects: Learners relate construction of run-off control structures to destruction of environment by excess water in socio-economic amenities as learnt in social studies.



Strand	Sub Strand	Specific Learning	Suggested Learning Experiences	Suggested	
		Outcomes		Key Inquiry	
				Question(s)	
1.0 Conservation of Resources	1.3 Conserving Food Nutrients (9 lessons)	By the end of the sub strand the learner should be able to: a) identify ways of conserving vitamins and mineral salts in vegetables b) conserve vitamins and mineral salts in vegetables	 Learners are guided to: search for information and discuss on ways of conserving vitamins and mineral salts in vegetables such as washing, peeling, cutting, cooking time, and covering. conserve vitamins and mineral salts in vegetables during food handling, preparation and cooking. adopt appropriate ways of handling, preparing and cooking vegetables to conserve vitamins and mineral salts. 	How do we conserve vitamins and mineral salts in vegetables?	
		c) adopt conservation of vitamins and mineral salts in vegetables.	• learning to learn as learners practice ways of conserving nutrients, integrity as they utilize resources prudently, health promotion as they conserve the nutrients in food production.		
Core competencies	: Learning to learn	: carrying out research ar	nd sharing information on ways of conserving nut	rients.	
Values: Integrity: p	orudent use of resou	arces as learners conserve	food nutrients.		
Pertinent and cont	Pertinent and contemporary issues: Health promotion as learners conserve nutrients in food production processes.				
Link to other subj science.	ects: Learners rela	te conservation of food n	utrients to healthy growth and development learnt	in integrated	

Strand	Sub strand	Specific learning outcomes	Suggested learning experiences	Suggested Key Inquiry Question(s)		
1.0 Conservation of Resources	1.4 Growing Trees (8 lessons)	 By the end of the sub strand the learner should be able to: a) explain the importance of trees in conserving the environment b) plant trees to conserve the environment c) adopt tree planting as a way of conserving the environment. 	 Learners are guided to: search for information on importance of trees and make presentations in class to share their findings. to plant at least one tree either from seeds, or seedlings or cuttings and take care of the seedlings until it is fully established. the learners develop leadership skills in establishing a tree, sharing tasks and carrying them out, they will develop patriotism by caring for the environment and environmental protection by caring for immediate micro climate. 	How can growing of trees conserve the environment?		
Core competer	ncies: Citizenship:	active community life skills a	as learners plant trees to conserve the environment	t.		
Values: Patriot	Values: Patriotism: loving the country by conserving the environment through tree planting.					
Pertinent and contemporary issues: Environmental protection as learners establish trees in the community to enhance the environment.						
Link to other s	ubjects: Learners	relate tree planting to conser	vation of natural resources learnt in social studies	5.		

Assessment rub	Assessment rubric					
Level Indicator	Exceeds Expectations	Meets Expectations	Approaches Expectations	Below Expectations		
Ability to describe how to conserve resources in the environment.	Describes four ways of conserving resources (controlling soil pollution, making water retention structures, conserving food nutrients, growing trees) in the environment with exemplified details.	Describes four ways of conserving resources (controlling soil pollution, making water retention structures, conserving food nutrients, growing trees) in the environment.	Describes two to three ways of conserving resources (controlling soil pollution, making water retention structures, conserving food nutrients, growing trees) in the environment.	Describes less than two ways of conserving resources (controlling soil pollution, making water retention structures, conserving food nutrients, growing trees) in the environment.		
Ability to conserve resources	Conserves four resources (soil, water, food nutrients, trees) in the environment through creative and innovative ways.	Conserves four resources (soil, water, food nutrients, trees) in the environment.	Conserves two to three resources (soil, water, food nutrients, trees) in the environment.	Conserves less than two resources (soil, water, food nutrients, trees) in the environment.		
Ability to demonstrate responsibility	Demonstrates more than three indicators of responsibility (caring for resources, observing safety, participating in assigned roles) when conserving resources in the environment.	Demonstrates three indicators of responsibility (caring for resources, observing safety, participating in assigned roles) when conserving resources in the environment.	Demonstrates two indicators of responsibility (caring for resources, observing safety, participating in assigned roles) when conserving resources in the environment.	Demonstrates less than two indicators of responsibility (caring for resources, observing safety, participating in assigned roles) when conserving resources in the environment.		

Strand	Sub strand	Specific Learning	Suggested Learning Experiences	Suggested Key			
		Outcomes		Inquiry Question(s)			
2.0 Food	2.1	By the end of the sub	Learners are guided to:	How does planting			
Production	Preparing	strand the learner	• observe provided planting materials and	material determine			
Processes	Planting	should be able to:	suggest appropriate tilth for each material	planting site			
	Site and	a) determine	(small sized seeds for fine tilth, medium sized	preparation?			
	Establishing	appropriate tilth	seeds for medium tilth and large planting				
	crop	for selected	materials like tubers, suckers and cuttings for				
		planting material,	coarse tilth).				
	(9 lessons)	 b) prepare a suitable tilth for establishing selected planting material, c) adopt appropriate tilth in establishing a selected planting material. 	 learners prepare suitable sites (<i>fine tilth for small seeds, medium tilth for medium sized seeds, coarse tilth for large planting materials like tubers, suckers and cuttings</i>). learners establish a planting material of their choice in the selected soil tilth. critical thinking (observation skills) as learners compare planting material to determine appropriate tilth, unity as learners collaborate to prepare planting sites, safety as learners use tools to prepare planting sites. 				
Core compe	tencies:						
Critical think	Critical thinking and problem solving: observation skills as learnt relate size of planting materials to type of tilth.						
Values:							
Unity: collab	oration with oth	er learners in the prepara	tion of sites and planting.				

STRAND 2.0 FOOD PRODUCTION PROCESSES

Pertinent and contemporary issues: Safety of self and others as learners use tools and equipment to prepare planting sites.

Link to other subjects:

Learners relate planting site (tilth) and seed size to concept of germination learnt in Integrated Science.

Strand	Sub strand	Specific learning	Suggested learning experiences	Suggested Key
		outcomes		Inquiry Question(s)
2.0	2.2	By the end of the sub	Learners are guided to:	How can we carry
Food	Selected	strand the learner should	• watch a video, or a demonstration on	out management
Production	Crop	be able to:	management practices (gapping,	practices in crop
Processes	Management	a) explain management	thinning, weeding, earthing-up).	production?
	Practices (8 lessons)	 practices carried out on crops b) carry out management practices in crop production c) appreciate importance of various management practices in crop production. 	 carry out selected management practices (gapping, thinning, weeding through physical methods, earthing-up). make class presentations on the importance of the selected management practices in crop production. self-efficacy as learners make presentations, respect for one another during the presentations and safety as learners use tools and equipment to carry out crop management practices. 	

Core competencies: Self-efficacy: effective communication skills as learners make presentations on importance of selected crop management practices.

Values: Respect: open mindedness as learners appreciate opinions of others during presentations

Pertinent and contemporary issues: Safety and security for self and others in the use of tools and equipment to carry out crop management practices.

Link to other subjects: Learners relate plant spacing and population that guide gapping and thinning to concepts of measurement and numbers in mathematics.

Strand	Sub strand	Specific learning outcomes	Suggested learning experiences	Suggested Key Inquiry Question(s)
2.0 Food Production Processes	2.3 Preparing Animal Products: Eggs and Honey	By the end of the sub strand the learner should be able to:a) explain how to prepare animal products for	 Learners are guided to: search for information, discuss and share experiences on how to prepare eggs and honey for use and storage. prepare eggs (<i>sorting, grading, packing</i>) and 	How can we prepare animal products?
	(9 lessons)	 various purposes, b) prepare animal products for various purposes c) embrace preparation of animal products for various purposes. 	 honey (crushing and straining method, packing in appropriate containers). display prepared animal products and adopt the practice at home and in school. digital literacy as learners search for information on preparation of animal products, integrity as learners apply ethical process in preparing the products, food hygiene as the use clean tools in preparing the animal products. 	

Core competencies: Digital literacy: digital citizenship skills while observing netiquette in the use and search of information on the internet.

Values: Integrity: use of ethically acceptable procedures in preparation and packaging of eggs and honey.

Pertinent and contemporary issues: Food hygiene on the use of clean tools and equipment when preparing eggs and honey.

Link to other subjects: Learners relate preparation of eggs and honey through sorting, grading and packing to concept of presentation of products for marketing learnt in Pre-technical studies.

Strand	Sub Strand	Specific Learning	Suggested learning experiences	Suggested
		Outcomes		Key Inquiry
				Question(s)
2.0	2.4	By the end of the sub	Learners are guided to:	Why should
Food	Cooking:	strand the learner should	• use digital resources, print materials or	we use
Production	Grilling,	be able to:	resource person to source for information on	different
Processes	Roasting	a) describe methods of	grilling, roasting and steaming foods	methods of
	and	cooking different	• use grilling, steaming and roasting methods to	cooking
	Steaming	types of foods	prepare foods while observing safety of self	food?
	_	b) cook food using	and others.	
		various methods	• make class presentations on the use of varied	
	(9 lessons)	c) appreciate the use of	methods of cooking food.	
		varied methods of	• digital literacy as learners search for	
		cooking food.	information value of responsibility as the take	
			care of cooking equipment and safety while	
			they use sharp tools and fuel in cooking	
Core competenci	es:		and use bharp tools and fuer in cooking.	I
Digital literacy: co	onnecting and	using technology to search f	for information on methods of cooking.	
Values:	8 *****			
Responsibility: tal	king care of co	oking equipment as learners	s engage in steaming and roasting methods.	
Pertinent and co	ntemporary is	sues:		
Safety of self and others as learners use sharp tools and fuels in cooking.				
Link to other sub	ojects:		*	
Learners relate co	oking methods	to transfer of heat learnt in	Integrated science.	

Assessment Rubric				
Level Indicator	Exceeds Expectations	Meets Expectations	Approaches Expectations	Below Expectations
Ability to describe food production processes	Describes four food production processes (preparation of sites and planting; selected management practices; preparing eggs and honey; and cooking by grilling, roasting and steaming) with elaborate details.	Describes four food production processes (preparation of sites and planting; selected management practices; preparing eggs and honey; and cooking by grilling, roasting and steaming).	Describes two to three food production processes (preparation of sites and planting; selected management practices; preparing eggs and honey; and cooking by grilling, roasting and steaming).	Describes less than two food production processes (preparation of sites and planting; selected management practices; preparing eggs and honey; and cooking by grilling, roasting and steaming).
Ability to carry out various food production processes	Carries out four food production processes (preparation of sites and planting; selected management practices; preparing eggs and honey; and cooking by grilling, roasting and steaming) with innovative and creative approaches.	Carries out four food production processes (preparation of sites and planting; selected management practices; preparing eggs and honey; and cooking by grilling, roasting and	Carries out two to three food production processes (preparation of sites and planting; selected management practices; preparing eggs and honey; and cooking by grilling,	Carries out less than two food production processes (preparation of sites and planting; selected management practices; preparing eggs and honey; and cooking by grilling,

		steaming).	roasting and	roasting and
			steaming).	steaming).
Ability to	Demonstrates more than three	Demonstrates three	Demonstrates two	Demonstrates less
demonstrate integrity	indicators of integrity (honesty,	indicators of integrity	indicators of integrity	than two indicators of
in the food	prudent use of resources and	(honesty, prudent use	(honesty, prudent use	integrity (honesty,
production	adherence to ethical	of resources and	of resources and	prudent use of
processes.	procedures) in the food	adherence to ethical	adherence to ethical	resources and
	production processes.	procedures) in the	procedures) in the	adherence to ethical
		food production	food production	procedures) in the
		processes.	processes.	food production
				processes.

STRAND 3.0 HYGIENE PRACTICES

Strand	Sub Strand	Specific Learning	Suggested Learning Experiences	Suggested Key Inquiry
		Outcomes		Question(s)
3.0 Hygiene	3.1 Hygiene	By the end of the sub	Learners are guided to:	How can we
Practices	in Rearing	strand the learner	• search for information on hygienic practices (<i>clean</i>	maintain
	Animals	should be able to:	feeders and waterers, clean and well ventilated	hygiene while
		a) describe hygiene	housing, clean animal) in rearing domestic animals	rearing
		practices in rearing	such as pets.	animals?
	(9 lessons)	domestic animals	• carry out appropriate hygiene practices in rearing	
		b) carry out hygiene	domestic animals such as <i>cleaning feeders</i> , waterers,	
		practices in rearing	cleaning animal structures.	
		domestic animals	• make class presentation on the importance of	
		c) appreciate	hygiene in rearing domestic animals.	
		importance of	• learning to learn while learners apply information to	
		hygiene practices	maintain animal hygiene, responsibility while caring	
		in rearing domestic	for the animals by maintaining animal hygiene, and	
		animals.	animal welfare as learners embrace care of animals.	

Core competencies: Learning to learn: sharing learnt knowledge as learners apply information to carry out hygiene in animal rearing practices.

Values: Responsibility: engaging in assigned roles while carrying out hygiene practices in rearing domestic animals.

Pertinent and contemporary issues:

Animal welfare as learners observe hygiene practices in rearing domestic animals.

Link to other subjects: Learners relate hygiene practices in rearing domestic animals to concepts of animal production as an economic activity learnt in social studies.

Strand	Sub Strand	Specific Learning	Suggested Learning Experiences	Suggested
		Outcomes		Key Inquiry
				Question(s)
3.0 Hygiene	3.2 Laundry:	By the end of the sub	Learners are guided to:	How do you
Practices	Loose	strand the learner should be	• watch a video clip or a demonstration on	launder a loose
	Coloured	able to:	how to launder a loose coloured (sorting,	coloured
	Items	a) describe how to launder	washing by kneading and squeezing,	articles for
		a loose coloured article	drying, finishing).	hygienic
		for hygiene purpose	• launder a loose coloured item (sorting,	purposes?
	(8 lessons)	b) launder a loose	washing by kneading and squeezing,	
		coloured article for	drying, finishing).	
		hygiene purposes	• learning to learn as they launder loose	
		c) embrace laundering of	coloured articles, responsibility as they	
		loose coloured article	undertake the assigned roles and health	
		for hygiene purposes.	promotion as they maintain hygiene.	
Core compete	encies:			
Learning to lea	arn: reflection of o	wn work as learners launder lo	pose coloured articles for hygiene purposes.	
Values:				
Responsibility	as learners undert	ake assigned roles to launder l	oose coloured articles.	
Pertinent and	contemporary is	sues:		
Health promot	ion as learners ma	intain hygiene through launde	ring a loose coloured article.	
Link to other	subjects:			
Learners relate	alaundering of loo	se coloured articles to concept	t of tie and dye technique of fixing colours learnt	in creative art.

Level	Exceeds Expectations	Meets Expectations	Approaches	Below Expectations
Indicator			Expectations	
Ability to describe	Describes two hygiene	Describes two	Describes one hygiene	Describes hygiene
hygiene practices at	practices (in rearing	hygiene practices (in	practice (in rearing	practices (in rearing
household level.	animals and laundering	rearing animals and	animals or laundering	animals or laundering
	loose coloured items) with	laundering loose	loose coloured items).	loose coloured items)
	elaborate details.	coloured items).		with partial details.
Ability to carry out	Carries out two hygiene	Carries out two	Carries out one	Carries out hygiene
hygiene practices at	practices (in rearing	hygiene practices (in	hygiene practice (in	practices (in rearing
household level.	animals and laundering	rearing animals and	rearing animals or	animals and laundering
	loose coloured items) at	laundering loose	laundering loose	loose coloured items) at
	household level with	coloured items) at	coloured items) at	household level with
	innovative or notable	household level.	household level.	some tasks that require
	attention to details.			corrections.
Ability to exhibit	Exhibits more than three	Exhibits three	Exhibits two	Exhibits less than two
unity in practising	indicators of unity (team	indicators of unity	indicators of unity	indicators of unity (team
hygiene.	spirit, collaboration with	(team spirit,	(team spirit,	spirit, collaboration with
	others and shares available	collaboration with	collaboration with	others and shares
	resources) in practising	others and shares	others and shares	available resources) in
	hygiene.	available resources)	available resources) in	practising hygiene.
		in practising	practising hygiene.	
		hygiene.		

Suggested Assessment Rubric

STRAND 4.0: PRODUCTION TECHNIQUES

Strand	Sub Strand	Specific Learning	Specific Learning Suggested Learning Experiences	
		Outcomes		Key Inquiry
				Question(s)
4.0	4.1 Sewing	By the end of the sub	Learners are guided to:	How do you
Production	Skills:	strand the learner should be	• use digital devices or real materials or print	knit an article
Techniques	Knitting	able to:	media identify basic knitting stitches (purl and	for household
		a) describe knitting	knit).	use?
		stitches used in making	• knit a simple household article such as <i>tools</i>	
	(10 lessons)	household articles	bag, scarf, gloves, mats or table wipers.	
		b) knit various articles for	• creativity skills as they explore ideas of	
		household use	knitting household articles, integrity as they	
		c) embrace knitted articles	prudently utilise knitting materials and safety	
		for household use	as they use sharp tools for knitting.	
Core compet	tencies:			
Creativity and	d imagination: e	xperimenting skills as learners	knit a household article using basic knitting stitches.	
Values:				
Integrity: pru	dent use of mate	erials and equipment in the knit	ting of household article.	
Pertinent an	d contemporar	y issues:		
Safety of self	and others as le	arners use sharp knitting tools.		
Link to othe	r subjects:			
Learners rela	te knitting to we	aving technique learnt in creati	ive arts.	

Strand	Sub Strand	Specific Learning	Suggested Learning Experiences	Suggested Key	
		Outcomes		Inquiry Question(s)	
4.0	4.2	By the end of the sub	Learners are guided to:	How are framed	
Production	Constructing	strand the learner	• search for photos, videos and illustrations	suspended gardens	
Techniques	Framed	should be able to:	on framed suspended gardens to describe	constructed?	
	Suspended	a) describe framed	how they are constructed.		
	Garden (10 lessons)	 suspended garden for growing crops, b) construct a framed structure for suspended garden, c) embrace the use of framed suspended garden for growing crops. 	 innovate and construct framed suspended gardens using locally available materials such as wires, wooden planks, metal bars and poles. establish a crop on the constructed framed suspended garden. creativity skills as learners innovate framed suspended gardens, unity as the learners demonstrate teamwork as they construct framed suspended gardens, and safety as the learners use tools and equipment to exact framed framed for the suspended for the suspen		
Core compete	encies: Creativit	y and imagination: exper	imenting skills as learners innovate framed suspended	ded gardens.	
Values: Unity	: team work as l	earners undertake the pro	ject for construction of framed suspended garden.	C	
Pertinent and	Pertinent and contemporary issues: Environmental awareness as learners utilize limited space when constructing framed				
suspended gar	dens.				
Link to other	subjects: Learn	ers relate designing, sket	tching and construction of framed suspended garde	n to skills in drawing,	
designing and	use of related to	ols learnt in Pre-technica	al studies.		

Strand 4.0 Production Techniques	Sub strand 4.3 Adding Value to Crop Produce (8 lessons)	Specific Learning Outcomes By the end of the sub strand the learner should be able to: a) explain ways of adding value on crop produce b) add value to a selected crop	 Suggested Learning Experiences Learners are guided to: discuss ways of adding value to crop produce such as potatoes, cassava, groundnuts, simsim, sweet potatoes and pumpkin. process a provided sample of crop produce such as potatoes, cassava, groundnuts, simsim, sweet potatoes and pumpkin to add value using appropriate methods like drying and frying. compare the processed crop produce to raw crop 	Suggested Key Inquiry Question(s) Why do we add value to crop produce? How can we add value to crop produce?					
		value addition on crop produce.	• problem solving skills as learners apply suitable method of adding value to crop produce, integrity as learners use ethically acceptable standards of processing, food and nutrition security as they process crop produce to solve food security issues.						
Core competence	cies: Critical th	inking and problem so	lving: evaluation and decision making skills as learners can	rry out value					
addition to a sele	cted crop prod	uce.		-					
Values: Integrity	: applying laid	down procedures whe	n learners ethically processes crop produce to add value.						
Pertinent and c	ontemporary i	ssues: Food and nutrit	ion security as learners process crop produce for value add	ition.					

Link to other subjects: Learners relate value addition concept to commodity marketing learnt in Pre-technical studies.

Strand	Sub Strand	Specific Learning	Suggested Learning Experiences	Suggested	
		Outcomes		Key Inquiry Question(s)	
4.0 Production Techniques	4.4 Making Homemade Soap (8 lessons)	By the end of the sub strand the learner should be able to: a) identify the forms of soap used at household level b) make homemade soap using natural ingredients c) embrace homemade soap for household use.	 Learners are guided to: brainstorm and share experiences on forms of soap (<i>liquid, cake/bar, paste, powder</i>) used at household level. use natural ingredients such as ashes, salt, water, animal fats or plant oils to make soap. use the home made soap for cleaning purposes. problem solving in collecting and using natural ingredients to make soap for cleaning, value of responsibility in sharing tasks to accomplish soap making process and financial literacy while learners save costs by making soap using available resources. 	How can we make soap using natural ingredients?	
Core compet	t encies: ing and proble	m solving: open-mindedn	ess and creativity skills as learners make home-made soan	using natural	
ingredients.	ing and proore				
Values: Responsibilit	Values: Responsibility: engaging in assigned roles while making home-made soap.				
Pertinent an	Pertinent and contemporary issues:				
Financial literacy as learners save on costs by using locally available resources to make home-made soap.					
Link to other Learners relat	r subjects: te use of natura	al ingredients in making s	oap to concepts of recycling and reusing wastes learnt in In	tegrated science.	

Suggested :	assessment rubric
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Level	Exceeds Expectations	Meets Expectations	Approaches	Below Expectations
			Expectations	
Indicator				
Ability to describe	Describes four production	Describes four	Describes two to three	Describes less than
production	techniques (knitting,	production techniques	production techniques	two production
techniques at	constructing framed garden,	(knitting, constructing	(knitting, constructing	techniques (knitting,
household level.	value addition on crop	framed garden, value	framed garden, value	constructing framed
	produce, and making soap)	addition on crop	addition on crop	garden, value addition
	at household level with	produce, and making	produce, and making	on crop produce, and
	illustrative details.	soap) at household	soap) at household level.	making soap) at
		level.		household level.
Ability to apply	Applies four production	Applies four	Applies two to three	Applies less than two
production	techniques (knitting,	production techniques	production techniques	production techniques
techniques at	constructing framed	(knitting, constructing	(knitting, constructing	(knitting, constructing
household level.	suspended garden, value	framed suspended	framed suspended	framed suspended
	addition on crop produce,	garden, value	garden, value addition	garden, value addition
	and making soap) at	addition on crop	on crop produce, and	on crop produce, and
	household level with notable	produce, and making	making soap) at	making soap) at
	creativity.	soap) at household	household level.	household level.
		level.		
Ability to portray	Portrays more than three	Portrays three	Portrays two indicators	Portrays less than two
integrity in carrying	indicators of integrity	indicators of integrity	of integrity (prudent use	indicators of integrity
out production	(prudent use of resources,	(prudent use of	of resources, adheres to	(prudent use of
techniques.	adheres to ethical	resources, adheres to	ethical procedures,	resources, adheres to

procedures, commitment to	ethical procedures,	commitment to duty) in	ethical procedures,
duty) in carrying out	commitment to duty)	carrying out production	commitment to duty)
production tasks.	in carrying out	tasks.	in carrying out
	production tasks.		production tasks.

APPENDIX 1: GUIDELINES FOR INTEGRATING COMMUNITY SERVICE LEARNING AT JUNIOR SCHOOL

Introduction

Community Service Learning (CSL) is an experiential learning strategy that integrates classroom learning and community service to enable learners reflect, experience and learn from the community. The CSL activity is hosted as a strand in Social Studies. The Social Studies teacher will be expected to coordinate teachers from other learning areas to carry out the integrated CSL class activity. Learners will be expected to apply knowledge, skills, attitudes and values from the different Learning Areas to undertake the integrated CSL class activity. Learners will undertake one common integrated class CSL activity following a 6-step milestone approach that is:

Milestone	Description
Milestone 1	Problem Identification Learners study their community to understand the challenges faced and their effects on community members.
Milestone 2	Designing a solution Learners create an intervention to address the challenge identified.
Milestone 3	Planning for the Project Learners share roles, create a list of activities to be undertaken, mobilise resources needed to create their intervention and set timelines for execution
Milestone 4	Implementation The learners execute the project and keep evidence of work done.

Milestone 5	Showcasing /Exhibition and Report Writing Exhibitions involve showcasing learners' project items to the community and reflecting on the feedback Learners write a report detailing their project activities and learnings from feedback
Milestone 6	Reflection Learners review all project work to learn from the challenges faced. They link project work with academic concepts, noting how the concepts enabled them to do their project as well as how the project helped to deepen learning of the academic concepts.

Assessment of CSL integrated Activity

Assessment for the integrated CSL activity will be conducted formatively. The assessment will consider both the process and end product. This entails assessing each of the milestone stages of the integrated CSL class activity. It will focus on 3 components namely: skills from various learning areas applied in carrying out the activity, core competencies developed and values nurtured.

Strand	Suggested Assessment	Suggested Resources	Suggested Non-Formal
	Methods		Activities
1.0 Conservation	Observation of learning	Digital resources	Learners to conduct school
of Resources	activities.	Print materials (charts, reference	community awareness on
	• Written tests and	books)	conservation of various resources
	assignments	Cooking tools and equipment	using existing formal interaction
	• Projects.	Cleaning equipment and materials	forums.
	• Oral assessment	Selected gardening tools	
	Activity journals	Selected foodstuffs	
		General environment for space,	
		samples of soils and plants	
2.0 Food	• Written tests and	Digital devices and print reference	Learners to prepare and manage a
Production	assignments	materials.	sample kitchen or backyard
Processes	Graded observation	General environment for space, soil	garden in the school for display.
	• Projects	and samples of plants.	
	Activity journal	Selected Garden tools such as <i>jembes</i> ,	Learners to use existing school
		fork jembes, spade, panga, slasher,	forums to display skills and
		tape measure.	products of the various learning
		Variety of planting materials	experiences to extend knowledge
		First aid kit	and create awareness to the school
		Cooking and cleaning equipment and	community.
		materials	
		Samples of animal products such as	
		eggs and honey, milk and meat.	

APPENDIX 2: LIST OF ASSESSMENT METHODS, LEARNING RESOURCES AND NON-FORMAL ACTIVITIES

3.0 Hygiene Practices	 Written test Oral assessment on safety when handling animal. Observation of learning Oral tests Project Activity journals 	Sample crop produce such as vegetables. Some small domestic animals such as rabbits, poultry or Guinea pigs. Cleaning equipment and materials Sample clothing and household articles Detergents, stain removal agents and disinfectants Digital devices and print reference materials General school environment	Learners to use existing school forums to sensitize the school community on hygiene practices.
4.0 Production Techniques	 Written test Oral tests Project Activity journals Observation of learning Written and oral tests 	Sewing tools such as needles, crochet, scissors and tape measure. Sewing materials such as sample fabrics and yarns. Gardening tools such as tape measure and hammer. General school environment Worked samples (crocheted and knitted materials) Sample planting materials Selected foodstuffs.	Learners to use existing school forums to create awareness and enhance adoption of various production techniques.