

# JUNIOR SCHOOL CURRICULUM DESIGN

# **GRADE 7**

# AGRICULTURE AND NUTRITION FOR LEARNERS WITH PHYSICAL IMPAIRMENT



# KENYA INSTITUTE OF CURRICULUM DEVELOPMENT

A Skilled and Ethical Society

## First published 2023

## Revised 2024

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## **ISBN:**

Published and printed by Kenya Institute of Curriculum Development

#### **FOREWORD**

The Government of Kenya is committed to ensuring that policy objectives for Education, Training and Research meet the aspirations of the Constitution of Kenya 2010, the Kenya Vision 2030, National Curriculum Policy 2019, the United Nations Sustainable Development Goals (SDGs) and the Regional and Global conventions to which Kenya is a signatory. Towards achieving the mission of Basic Education, the Ministry of Education (MoE) has successfully and progressively rolled out the implementation of the Competency Based Curriculum (CBC) at Pre-Primary, Primary and Junior School levels.

The implementation of Competency Based Curriculum involves monitoring and evaluation to determine its success. After the five-year implementation cycle, a summative evaluation of the primary education cycle was undertaken to establish the achievement of learning outcomes as envisaged in the Basic Education Curriculum Framework. The Government of Kenya constituted a Presidential working Party on Education Reforms (PWPER) in 2022 to address salient issues affecting the education sector. PWPER made far reaching recommendations for basic education that necessitated curriculum review. The recommendations of the PWPER, monitoring reports, summative evaluation, feedback from curriculum implementers and other stakeholders led to rationalisation and review of the basic education curriculum.

The reviewed Grade seven curriculum designs for learners with physical impairment build on competencies attained by learners at Primary school level. Emphasis at this grade is the development of skills for exploration and making informed decision on pathways based on careers.

The curriculum designs present National Goals of Education, essence statements, general and specific expected learning outcomes for the subjects as well as strands and sub strands. The designs also outline suggested learning experiences, key inquiry questions, core competencies, Pertinent and Contemporary Issues (PCIs), values, and assessment rubric.

It is my hope that all Government agencies and other stakeholders in Education will use the designs to plan for effective and efficient implementation of the CBC.

HON. EZEKIEL OMBAKI MACHOGU, CBS CABINET SECRETARY, MINISTRY OF EDUCATION

## **PREFACE**

The Ministry of Education (MoE) nationally implemented Competency Based Curriculum (CBC) in 2019. Grade seven is the first grade of Junior school while Grade 9 is the final grade of the level in the reformed education structure.

The reviewed Grade seven curriculum furthers implementation of the CBC from Primary Education level. The curriculum provides opportunities for learners to focus in a field of their choice to form a foundation for further education and training and/or gain employable skills. This is very critical in the realisation of the Vision and Mission of the on-going curriculum reforms as enshrined in the Sessional Paper No. I of 2019 whose title is: Towards Realizing Quality, Relevant and Inclusive Education and Training for Sustainable Development in Kenya. The Sessional Paper explains the shift from a content-focused curriculum to a focus on **nurturing every learner's potential.** 

Therefore, the Grade seven curriculum designs for learners with physical impairment are intended to enhance the learners' development in the CBC core competencies, namely: Communication and Collaboration, Critical Thinking and Problem Solving, Creativity and Imagination, Citizenship, Digital Literacy, learning to Learn and Self-efficacy.

The curriculum designs provide suggestions for interactive and differentiated learning experiences linked to the various sub strands and the other aspects of the CBC. They also offer several suggested learning resources and a variety of assessment techniques. It is expected that the designs will guide teachers to effectively facilitate learners to attain the expected learning outcomes for Grade seven and prepare them for smooth transition to Grade eight. Furthermore, it is my hope that teachers will use the adapted designs to make learning interesting, exciting and enjoyable.

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## **ACKNOWLEDGEMENT**

The Kenya Institute of Curriculum Development (KICD) Act Number 4 of 2013 (Revised 2019) mandates the Institute to develop and review curricula and curriculum support materials for basic and tertiary education and training. The curriculum development process for any level of education involves thorough research, international benchmarking and robust stakeholder engagement. Through a systematic and consultative process, the KICD conceptualised the Competency Based Curriculum (CBC) as captured in the Basic Education Curriculum Framework (BECF) 2017, that responds to the demands of the 21<sup>st</sup> Century and the aspirations captured in the Constitution of Kenya 2010, the Kenya Vision 2030, East African Community Protocol, International Bureau of Education Guidelines and the United Nations Sustainable Development Goals (SDGs).

KICD receives its funding from the Government of Kenya to facilitate successful achievement of the stipulated mandate and implementation of the Government and Sector (Ministry of Education (MoE) plans. The Institute also receives support from development partners targeting specific programmes. The revised Grade seven curriculum designs for learners with physical impairment were developed and adapted with the support of the World Bank through the Kenya Primary Education Equity in Learning Programme (KPEELP); a project coordinated by MoE. Therefore, the Institute is very grateful for the support of the Government of Kenya, through the MoE and the development partners for policy, resource and logistical support. Specifically, special thanks to the Cabinet Secretary-MoE and the Principal Secretary – State Department of Basic Education.

I also wish to acknowledge the KICD curriculum developers and other staff, all teachers, educators who took part as panelists; the Semi-Autonomous Government Agencies (SAGAs) and representatives of various stakeholders for their roles in the development and adaptation of the Grade seven curriculum designs for learners with physical impairment. In relation to this, I acknowledge the support of the Chief Executive Officers of the Teachers Service Commission (TSC) and the Kenya National Examinations Council (KNEC) for their support in the process of developing and adapting these designs. Finally, I am very grateful to the KICD Council Chairperson and other members of the Council for very consistent guidance in the process.

I assure all teachers, parents and other stakeholders that this curriculum design will effectively guide the implementation of the CBC at Grade seven and preparation of learners with physical impairment for transition to Grade eight.

PROF. CHARLES O. ONG'ONDO, PhD, MBS DIRECTOR/CHIEF EXECUTIVE OFFICER

KENYA INSTITUTE OF CURRICULUM DEVELOPMENT

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# LESSON ALLOCATION AT JUNIOR SCHOOL

S/No	Learning Area	Number of Lessons per week
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
	Pastoral / Religious Instructional Programme	1
	Total	40 + 1

#### ATIONAL 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 needs 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.

#### LEARNING OUTCOMES FOR JUNIOR SCHOOL

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

- a) Apply literacy, numeracy and logical thinking skills for appropriate self-expression.
- b) Communicate effectively, verbally and non-verbally, in diverse contexts.
- c) Demonstrate social skills, spiritual and moral values for peaceful co-existence.
- d) Explore, manipulate, manage and conserve the environment effectively for learning and sustainable development.
- e) Practice relevant hygiene, sanitation and nutrition skills to promote health.
- f) Demonstrate ethical behaviour and exhibit good citizenship as a civic responsibility.
- g) Appreciate the country's rich and diverse cultural heritage for harmonious co-existence.
- h) Manage pertinent and contemporary issues in society effectively.
- i) 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 socio-economic 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 ground 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 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

Strands	Sub Strands	Suggested Number of Lessons
1.0 Conservation of Resources	1.1 Controlling Soil Pollution	7
	1.2 Constructing Water Retention Structures	8
	1.3 Conserving Food Nutrients	9
	1.4 Growing Trees	8
2.0 Food Production Processes	2.1 Crop Establishment	9
	2.2 Selected Crop Management Practices	8
	2.3 Preparing Animal Products	9
	2.4 Cooking Food	9
3.0 Hygiene Practices	3.1 Hygiene in Rearing Animals	9
	3.2 Laundry: Loose Coloured Items	8
4.0 Production Techniques	4.1 Knitting Skills	10
	4.2 Constructing Framed Suspended Garden	10
	4.3 Adding Value to Crop Produce	8
	4.4 Making Homemade Soap	8
Total Number of Lessons 120		

# **NOTE:**

The suggested number of lessons per sub strand may be more or less depending on the context.

# 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 Controlling soil pollution  (7 lessons)	By the end of the sub strand the learner should be able to; a) explain the causes of soil pollution in gardening, b) control soil pollution in home environment, c) demonstrate responsibility in using safe farming practices to conserve the soil.	Learners are guided to:  • Search and watch a video clip or print media on causes of soil pollution and then share experiences on causes of soil pollution such as waste water, excessive use of artificial fertilizers, agricultural chemicals and plastic wastes. Light intensity should be controlled for learners who are sensitive to light and colour as they watch the video. Learners with speech difficulties can be lip read by peers, or be given enough time to express themselves.	How can household practices cause soil pollution?

<ul> <li>Engage in safe soil pollution control practices such as safe disposal of household waste water, used chemical containers and plastic wastes.         Learners with manipulation difficulties could use adapted technology to practice safe disposal. Safety precautions should be observed when controlling soil pollution.</li> <li>Create awareness messages against 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. Learners with manipulation difficulties</li> </ul>
and fertilizers. Learners with

	Those with speech difficulties could use alternative modes of communication as they create awareness messages against soil pollution.
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# **Core competencies:**

Citizenship: Civic skills as learners promote control of soil pollution to enhance soil conservation in the community.

## 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 questions
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 run-off, c) adopt utilization of surface run-off in gardening.	<ul> <li>Learners are guided to:</li> <li>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. Learners with speech difficulties could use alternative modes of communication as they discuss.</li> <li>Construct retention ditches or retention pits for water conservation. Learners with manipulation difficulties could use adapted technology or be supported by peers, learner support assistant or teacher to perform the task.</li> <li>Establish a crop of their choice such as a banana</li> </ul>	<ol> <li>How can surface run-off be conserved for gardening purposes?</li> <li>How does construction of water retention structures conserve water?</li> </ol>

**Core competencies:** Critical thinking and problem solving: decision making skills as learners construct water retention structures to control run-off.

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 outcomes	Suggested learning experiences	Suggested Key inquiry questions
1.0 Conservation of Resources	1.3 Conserving food nutrients	By the end of the sub strand the learner should be able to; a) identify ways of conserving 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,	How do we conserve vitamins and mineral salts in vegetables?

(9 lessons)	b) conserve vitamins and mineral salts in vegetables, c) adopt conservation of vitamins and mineral salts in vegetables.	and covering Those with speech difficulties could use alternative modes of communication as they discuss  Conserve vitamins and mineral salts in vegetables during food handling, preparation and cooking.  Learners with manipulation difficulties could use adapted technology or be supported by peers, learner support assistant or teacher. Safety precautions should be observed during food handling, preparation and cooking.  In purposive groups/pairs, discuss and make presentations on how they can adopt appropriate ways of handling, preparing and cooking vegetables to conserve vitamins and mineral salts.	
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	Learners with speech difficulties could use alternative modes of communication or be given enough time to express themselves.
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**Core competencies:** Learning to learn: carrying out research and sharing information on ways of conserving nutrients. **Values:** Integrity: prudent use of resources as learners conserve food nutrients.

Pertinent and contemporary issues: Health promotion as learners conserve nutrients in food production processes.

**Link to other subjects:** Learners relate conservation of food nutrients to healthy growth and development learnt in integrated science.

Strand	Sub strand	Specific learning outcomes	Suggested learning experiences	Suggested Key inquiry questions
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,	Learners are guides to:  • Search for information on the importance of trees and make presentations in class to share their findings. Light intensity should be controlled for learners who are sensitive to light and colour as they search	How can growing trees conserve the environment?

c) adopt tree planting as a way of conserving the environment.	for information on their adapted digital devices.  Learners with speech difficulties could use alternative modes of communication during the presentations.  In purposive pairs, Plant at least one tree either from seeds, or seedlings or cuttings  Take care of the seedlings until it is fully established. Learners with manipulation difficulties could be supported by peers or learner support assistant to care for the seedlings.
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Core competencies: Citizenship: active community life skills as learners plant trees to conserve the environment.

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 subjects:** Learners relate tree planting to conservation of natural resources learnt in social studies.

**Suggested Assessment Rubric** 

Level Indicator	Exceeds Expectations	<b>Meets Expectations</b>	Approaches Expectations	<b>Below Expectations</b>
Ability to describe ways of conserving resources in the environment: (controlling soil pollution, making water retention structures, conserving food nutrients, growing trees).	The learner describes four ways of conserving resources.	The learner describes three ways of conserving resources.	The learner describes two ways of conserving resources.	The learner describes less than two ways of conserving resources.
Ability to conserve resources in the environment: (soil, water, food nutrients, trees).	The learner conserves four resources in the environment.	The learner conserves three resources in the environment.	The learner conserves two resources in the environment.	The learner conserves less than two resources in the environment.
Ability to show responsibility in conserving resources in the environment: (caring for resources, observing safety, participating in assigned roles, offering leadership to others).	The learner shows four indicators of responsibility in conserving resources in the environment.	The learner shows three indicators of responsibility in conserving resources in the environment.	The learner shows <i>two</i> indicators of responsibility in conserving resources in the environment.	The learner shows less than two indicators of responsibility in conserving resources in the environment.

# 2.0 FOOD PRODUCTION PROCESSES

Strand	Sub strand	Specific learning outcomes	Suggested learning experiences	Suggested Key inquiry questions
2.0 Food Production Processes	2.1 Crop Establishment  • Preparing planting site  • Planting  (9 lessons)	By the end of the sub strand the learner should be able to; a) determine appropriate tilth for selected planting material, b) prepare a suitable tilth for establishing selected planting material, c) adopt appropriate tilth in establishing a selected planting material.	<ul> <li>Learners are guided to:</li> <li>Observe provided planting materials and suggest appropriate tilth for each material (small sized seeds for fine tilth, medium sized seeds for medium tilth and large planting materials like tubers, suckers and cuttings for coarse tilth).</li> <li>Preferentially sit the learners for better or enhanced view while observing provided planting materials.</li> <li>In purposive groups, prepare suitable sites (fine tilth for small seeds, medium tilth for medium sized seeds, and coarse tilth for large planting materials like tubers, suckers</li> </ul>	How does planting material determine planting site preparation?

	<ul> <li>and cuttings) Learners with manipulation difficulties could be supported by peers to prepare suitable planting sites.</li> <li>Establish a planting material of their choice in the selected soil tilth and take care of the crop to adopt use of appropriate tilth in crop production</li> </ul>
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# **Core competencies:**

Critical thinking and problem solving: Observation skills as learnt relate size of planting materials to type of tilth.

## Values:

Unity: Collaboration with other learners in the preparation of sites and planting.

## **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 outcomes	Suggested learning experiences	Suggested Key inquiry questions
2.0 Food Production Processes	2.2 Selected crop management practices (8 lessons)	By the end of the sub strand the learner should be able to; a) explain management practices carried out on crops, b) carry out management practices in crop production, c) appreciate the importance of various management practices in crop production.	<ul> <li>Learners are guided to:</li> <li>Watch a video, or a demonstration on management practices (gapping, thinning, weeding, earthing-up). Light intensity should be controlled for learners who are sensitive to light and colour as they watch the video.         Preferentially sit the learners for better or enhanced view.     </li> <li>In purposive groups, carry out selected management practices (gapping, thinning, weeding through physical methods, earthling-up). Learners with manipulation difficulties could be supported by peers or learner support assistant to carry out selected</li> </ul>	How can we carry out management practices in crop production?

	management practices. Safety precautions should be observed when handling the farm tools.  • Make class presentations on the importance of the selected management practices in crop production. Learners with speech difficulties could use alternative modes of communication to make presentations.
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**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 questions
2.0 Food Production Processes	2.3 Preparing animal products  • Eggs  • Honey  (9 lessons)	By the end of the sub strand the learner should be able to; a) explain how to prepare animal products for various purposes, b) prepare animal products for various purposes, c) embrace preparation of animal products for various purposes.	<ul> <li>Learners are guided to:</li> <li>Search for information, discuss and share experiences on how to prepare eggs and honey for use and storage.         Learners with speech difficulties could use alternative modes of communication     </li> <li>In purposive pairs prepare eggs (sorting, grading, packing) and honey (crushing and straining method, packing in appropriate containers). Learners with manipulation difficulties could be supported by peers or learner support assistant to prepare eggs and honey.</li> </ul>	How can we prepare animal products?

	Safety precaution should be observed as they carry out this activity.  • Display prepared animal products to embrace the practice of preparing animal products. Preferentially sit the learners for a better or enhanced view of the displayed products.
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**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 outcomes	Suggested learning experiences	Suggested Key inquiry questions
Food Production Processes	2.4 Cooking food	By the end of the sub strand the learner should be able to; a) describe methods of cooking different types of foods, b) cook food using various methods, c) appreciate the use of varied methods of cooking food.	<ul> <li>Use digital resources, print materials or resource person to source for information on grilling, roasting and steaming foods         Use adapted digital devices with appropriate accessible features .Light and colour could be adjusted for those who are sensitive to light.     </li> <li>Practise grilling, steaming and roasting methods to prepare foods while observing safety of self and others. Learners with manipulation difficulties could be supported by peers or learner support assistant as they grill, steam and roast food.</li> <li>Serve grilled, steamed and roasted foods to appreciate the</li> </ul>	Why should we use different methods of cooking food?

	various methods of cooking. Safety precaution should be observed as they serve.	
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## **Core competencies:**

Digital literacy: Connecting and using technology to search for information on methods of cooking.

#### Values:

Responsibility: Taking care of cooking equipment as learners engage in steaming and roasting methods.

# **Pertinent and contemporary issues:**

Safety of self and others as learners use sharp tools and fuels in cooking.

# Link to other subjects:

Learners relate cooking methods to transfer of heat learnt in Integrated science.

**Suggested Assessment Rubric** 

Level	<b>Exceeds Expectations</b>	<b>Meets Expectations</b>	<b>Approaches Expectations</b>	<b>Below Expectations</b>
Indicator				
Ability to describe	The learner describes	The learner	The learner describes three	The learner describes
food production	<i>eight</i> food production	describes six to	to five food production	less than three food
processes	processes.	seven food	processes.	production
(preparation of sites,		production		processes.
planting,		processes.		
management				
practices, preparing				

eggs, preparing honey, grilling,				
roasting, steaming).  Ability to carry out various food production processes: (preparation of sites, planting, management practices, preparing eggs, preparing honey, grilling, roasting, steaming).	The learner carries out <i>eight</i> food production processes.	The learner carries out six to seven food production processes.	The learner carries out <i>three</i> to five food production processes.	The learner carries out <i>less than three</i> food production processes.
Ability to exhibit integrity in the food production processes: (is self-disciplined, is honest, uses prudent use of resources and adherence to ethical procedures).	The learner shows <i>four</i> indicators of integrity in carrying out the food production processes.	The learner shows three indicators of integrity in carrying out the food production processes.	The learner shows <i>two</i> indicators of integrity in carrying out the food production processes.	The learner shows less than two indicators of integrity in carrying out the 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 Hygiene in rearing animals  (9 lessons)	By the end of the sub strand the learner should be able to; a) describe hygiene practices in rearing domestic animals b) carry out hygiene practices in rearing domestic animals, c) appreciate importance of hygiene practices in rearing domestic animals.	Learners are guided to: Search for information on hygienic practices (clean feeders and waterers, clean and well-ventilated housing, clean animals) in rearing domestic animals such as pets. Learners with manipulation difficulties could use adapted technology devices or be supported by peers, learner support assistant or teacher to search for information.  Carry out appropriate hygiene practices in rearing domestic animals such as cleaning feeders, waterers, cleaning animal structures Learners with manipulation difficulties could use adapted technology or be supported by peers,	How can we maintain hygiene while rearing animals?

	learner support assistant or teacher to carry out hygiene practices in rearing domestic animals  • Make a class presentation on the importance of hygiene in rearing domestic animals.  Learners with speech difficulties could use alternative modes of communication as they present.	
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**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 outcomes	Suggested learning experiences	Suggested Key inquiry questions
3.0 Hygiene Practices	3.2 Laundry: Loose coloured items  (8 lessons)	By the end of the sub strand the learner should be able to;  a) describe how to launder a loose coloured article for hygiene purposes  b) launder a loose coloured article for hygiene purposes,  c) embrace laundering of loose coloured article for hygiene purposes.	<ul> <li>Watch a video clip or a demonstration on how to launder a loose coloured item (sorting, washing by kneading and squeezing, drying, finishing). Use adapted digital devices with appropriate accessible features Light and colour could be adjusted for learners who are sensitive to light.</li> <li>Launder a loose coloured item (sorting, washing by kneading and squeezing, drying, finishing). Learners with manipulation difficulties could use adapted technology or be supported by peers, learner support assistant or teacher to carry out this activity.</li> </ul>	How do you launder a loose coloured article for hygienic purposes?

	Display the clean loose coloured articles to embrace appropriate laundry for hygiene purposes.  Preferentially arrange the learners for a better or enhanced view of the displayed articles.
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### **Core competencies:**

Learning to learn: Reflection of own work as learners launder loose coloured articles for hygiene purposes.

#### Values:

Responsibility as learners undertake assigned roles to launder loose coloured articles.

#### **Pertinent and contemporary issues:**

Health promotion as learners maintain hygiene through laundering a loose coloured article.

#### Link to other subjects:

Learners relate laundering of loose coloured articles to concept of tie and dye technique of fixing colours learnt in creative art.

**Suggested Assessment Rubric** 

Level	<b>Exceeds Expectations</b>	<b>Meets Expectations</b>	<b>Approaches Expectations</b>	Below
Indicator	Enecous Emperousions	TVICOUS EMPECUATIONS	rippi ouches Emperius	Expectations
Ability to describe	The learner describes	The learner	The learner describes	The learner
hygiene practices at	hygiene practices at	describes hygiene	hygiene practices at	describes hygiene
household level:	household level with	practices.	household level with some	practices at
(hygiene in rearing	elaborate details.		few details missing.	household level
animals and laundering				with lots of missing
loose coloured items).				details.
Ability to carry out	The learner can	The learner can	The learner can identify the	The learner can
hygiene practices at	identify the required	identify the required	required hygienic practice,	identify the required
household level:	hygienic practice,	hygienic practice,	required hygienic	hygienic practice.
(hygiene in rearing	required hygienic	required hygienic	measures.	
animals and laundering	measures, can	measures, can		
loose coloured items).	assemble require	assemble require		
	resources, and carry	resources.		
	out the practice.			
Ability to exhibit unity	The learner exhibits	The learner exhibits	The learner exhibits <i>two</i>	The learner exhibits
in practising hygiene:	four indicators of	three indicators of	indicators of unity in	less than two
(team spirit,	unity in practising	unity in practising	practising hygiene at	indicators of unity
collaboration with	hygiene at household	hygiene at	household level.	in practising
others, respects others	level.	household level.		hygiene at
and shares available				household level.
resources).				

# **4.0 PRODUCTION TECHNIQUES**

Strand	Sub strand	Specific learning outcomes	Suggested learning experiences	Suggested Key inquiry questions
4.0 Production Techniques	4.1 Knitting Skills (10 lessons)	By the end of the sub strand the learner should be able to; a) describe knitting stitches used in making household articles b) knit various articles for household use c) embrace knitting skills in making household articles.	<ul> <li>Use digital devices or real materials or print media identify basic knitting stitches (purl and knit). Use adapted digital devices with appropriate accessible features. Light and colour could be adjusted for those who are sensitive to light.</li> <li>Knit a simple household article such as a tool bag, scarf, gloves, mats or table wipers. Learners with manipulation difficulties could use adapted technology or be supported by peers, to knit a simple household article.</li> </ul>	How do you knit an article for household use?

	Display knitted work to     embrace the use of knitted     orticles for beyschold use
	articles for household use.

### **Core competencies:**

Creativity and imagination: Experimenting skills as learners knit a household article using basic knitting stitches.

#### Values:

Integrity: Prudent use of materials and equipment in the knitting of household article.

# Pertinent and contemporary issues:

Safety of self and others as learners use sharp knitting tools.

## Link to other subjects:

Learners relate knitting to weaving technique learnt in creative arts and sports.

Strand	Sub strand	Specific learning outcomes	Suggested learning experiences	Suggested Key inquiry questions
4.0 Production Techniques	4.2 Constructing framed suspended garden (10 lessons)	By the end of the sub strand the learner should be able to; a) describe framed suspended garden for growing crops,	Learners are guided to:  • Search for photos, videos and illustrations on framed suspended gardens to describe how they are constructed. Light and colour	How are framed suspended gardens constructed?

	structure for suspended garden, embrace the use of framed suspended garden for growing crops.	<ul> <li>could be adjusted for those who are sensitive to light.</li> <li>Innovate and construct framed suspended gardens using locally available materials such as wires, wooden planks, metal bars and poles. Learners with manipulation difficulties could use adapted technology or be supported by peers or learner support assistant to construct framed suspended gardens.</li> <li>Establish a crop on the constructed framed suspended garden to embrace their use in growing crops. Learners with manipulation difficulties could use adapted technology devices or be supported by peers or learner support assistant to establish a crop on framed suspended gardens.</li> </ul>	
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Core competencies: Creativity and imagination: Experimenting skills as learners innovate framed suspended gardens.

Values: Unity: Team work as learners undertake the project for construction of framed suspended garden.

**Pertinent and contemporary issues:** Environmental awareness as learners utilize limited space when constructing framed suspended gardens.

**Link to other subjects:** Learners relate designing, sketching and construction of framed suspended garden to skills in drawing, designing and use of related tools learnt in Pre-technical Studies.

Strand	Sub strand	Specific learning outcomes	Suggested learning experiences	Suggested Key inquiry questions
4.0 Production Techniques	4.3 Adding value to crop produce (8 lessons)	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 produce, c) appreciate the importance of value addition on crop produce.	Learners are guided to:  Discuss ways of adding value to crop produce such as potatoes, cassava, groundnuts, sim sim, sweet potatoes and pumpkin. Learners with speech difficulties could use alternative modes of communication as they discuss.	<ol> <li>Why do we add value to crop produce?</li> <li>How can we add value to crop produce?</li> </ol>

	<ul> <li>In purposive group/pairs, process a provided sample of crop produce such as potatoes, cassava, groundnuts, sim sim, sweet potatoes and pumpkin to add value using appropriate methods like drying and frying. Learners with manipulation difficulties could use adapted technology or be supported by peers to process a provided sample of crop.</li> <li>In purposive groups, compare the processed crop produce to raw crop produce in terms of monetary value and storage life to appreciate importance of value addition.</li> </ul>
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**Core competencies:** Critical thinking and problem solving: Evaluation and decision-making skills as learners carry out value addition to a selected crop produce.

Values: Integrity: Applying laid down procedures when learners ethically processes crop produce to add value.

**Pertinent and contemporary issues:** Food and nutrition security as learners process crop produce for value addition.

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

Strand	Sub strand	Specific learning outcomes	Suggested learning experiences	Suggested Key inquiry questions
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.	<ul> <li>Learners are guided to:</li> <li>Brainstorm and share experiences on forms of soap (liquid, cake/bar, paste, powder) used at household level. Learners with speech difficulties could use alternative modes of communication as they brainstorm and share experiences.</li> <li>Use natural ingredients such as ashes, salt, water, animal</li> </ul>	How can we make soap using natural ingredients?

fats or plant oils to make soap. Learners with manipulation difficulties could use adapted technology or be supported by peers or learner support assistant to make soap.
• Use the homemade soap to maintain cleanliness at household level. Learners with manipulation difficulties could use adapted technology or be supported by peers or learner support assistant to clean.

## **Core competencies:**

Critical thinking and problem solving: Open-mindedness and creativity skills as learners make home-made soap using natural ingredients.

#### Values:

Responsibility: Engaging in assigned roles while making home-made soap.

## **Pertinent and contemporary issues:**

Financial literacy as learners save on costs by using locally available resources to make home-made soap.

# Link to other subjects:

Learners relate use of natural ingredients in making soap to concepts of recycling and reusing wastes learnt in Integrated Science.

**Suggested Assessment Rubric** 

Level	<b>Exceeds Expectations</b>	<b>Meets Expectations</b>	<b>Approaches Expectations</b>	<b>Below Expectations</b>
Indicator				
Ability to describe production techniques at household level: (knitting, constructing framed garden, value addition on crop produce, and making soap).	The learner describes four production techniques at household level.	The learner describes <i>three</i> production techniques at household level.	The learner describes <i>two</i> production techniques at household level.	The learner describes less than two production techniques at household level.
Ability to apply production techniques at household level:  (knitting, constructing framed garden,	The learner applies <i>four</i> production techniques at household level.	The learner applies three production techniques at household level.	The learner applies <i>two</i> production techniques at household level.	The learner applies less than two production techniques at household level.

value addition on crop produce, and making soap).				
Ability to portray integrity in production techniques: (is honest, uses resources prudently, adheres to ethical procedures, has commitment to duty).	The learners portrays four indicators of integrity in production techniques.	The learners portrays three indicators of integrity in production techniques.	The learners portrays <i>two</i> indicators of integrity in production techniques.	The learners portrays less than two indicators of integrity in production techniques.

#### 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.

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

Strand	Suggested Assessment Methods	Suggested Resources	<b>Suggested Non-Formal Activities</b>
1.0 Conservation of Resources	<ul> <li>Observation of learning activities.</li> <li>Written tests and assignments.</li> <li>Projects.</li> <li>Oral assessment</li> <li>Activity journals</li> </ul>	<ul> <li>Adapted digital resources</li> <li>Print materials (charts, reference books)</li> <li>Cooking tools and equipment</li> <li>Cleaning equipment and materials</li> <li>Selected gardening tools</li> <li>Selected foodstuffs</li> <li>General environment for space, samples of soils and plants</li> </ul>	Learners to conduct school community awareness on conservation of various resources using existing formal interaction forums.
3.0 Hygiene Practices	<ul> <li>Written tests</li> <li>Oral         <ul> <li>assessment on</li> <li>safety when</li> <li>handling</li> <li>animals.</li> </ul> </li> <li>Observation of learning</li> <li>Oral tests</li> </ul>	<ul> <li>Cleaning equipment and materials</li> <li>Sample clothing and household articles</li> <li>Detergents, stain removal agents and disinfectants</li> <li>Digital devices and print reference materials</li> <li>General school environment</li> </ul>	Learners to use existing school forums to sensitize the school community on hygiene practices.

	<ul><li>Project</li><li>Activity</li><li>journals</li></ul>		
4.0 Production Techniques	<ul> <li>Written test</li> <li>Oral tests</li> <li>Project</li> <li>Activity journals</li> <li>Observation of learning</li> <li>Written and oral tests</li> </ul>	<ul> <li>Sewing tools such as needles, crochet, scissors and tape measure.</li> <li>Sewing materials such as sample fabrics and yarns.</li> <li>Gardening tools such as tape measure and hammer.</li> <li>General school environment</li> <li>Worked samples (crocheted and knitted materials)</li> <li>Sample planting materials</li> <li>Selected foodstuffs.</li> </ul>	Learners to use existing school forums to create awareness and enhance adoption of various production techniques.

**NOTE:** Assessment methods may be modified to accommodate a learner's diverse needs so that he/she can participate and achieve the learning outcomes. The table below shows how modes of assessment may be adapted for learners with physical impairment:

## ADAPTATION OF ASSESSMENT METHODS

S/NO	ASSESSMENT METHODS/MODES	SUGGESTED ADAPTATIONS
1.	Written assessment	<ul> <li>Typing, stamping or signing</li> <li>Description of the task as a scribe or learner support assistant writes</li> <li>Audio visual recording of the learner as he/she makes oral responses</li> <li>Provision of Adapted digital devices and writing/drawing resources</li> <li>Adjustment of time according to individual needs</li> <li>Providing illustrations to be interpreted for activities that involve drawing</li> <li>Use of worksheets</li> </ul>
2.	Oral or Aural assessment	<ul> <li>Written responses</li> <li>Use of AAC (Augmentative and Alternative modes of Communication) e.g. talking books, gestures, body movement, sign language, alphabet cards, facial expressions</li> <li>Adjustment of time according to individual needs</li> </ul>
3.	Portfolio	<ul> <li>Use of E-Portfolio</li> <li>Provision of physical support</li> <li>Use of assistive technology</li> <li>Provision of Adapted digital devices and writing/drawing resources</li> <li>Adjustment of time according to individual needs</li> <li>Description of how to carry out a practical activity while being audio/video recorded</li> </ul>

4.	Practical assessment	Provision of physical support
		<ul> <li>Provision of Adapted resources (learner specific)</li> </ul>
		<ul> <li>Description of how to carry out a practical activity while being audio/video recorded</li> </ul>
		<ul> <li>Adjustment of time according to individual needs</li> </ul>
		<ul> <li>Rest intervals according to individual needs</li> </ul>
		Environmental adaptation
5.	Project	<ul> <li>Provision of physical support</li> </ul>
		<ul> <li>Provision of Adapted resources (learner specific)</li> </ul>
		<ul> <li>Description of how to carry out a practical activity while being audio/video recorded</li> </ul>
		<ul> <li>Adjustment of time according to individual needs</li> </ul>
		Environmental adaptation

Note: Safety of all learners should be observed during assessment