



**KENYA INSTITUTE OF CURRICULUM DEVELOPMENT**  
*A Skilled and Ethical Society*

**LOWER PRIMARY SCHOOL**

**CURRICULUM DESIGN FOR ENVIRONMENTAL ACTIVITIES GRADE 2**

**JANUARY 2024**

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### LESSON ALLOCATION AT LOWER PRIMARY

<b>S/No</b>	<b>Learning Area</b>	<b>Number of Lessons</b>
1.	Indigenous Language Activities	2
2.	Kiswahili Language Activities / Kenya Sign Language Activities	4
3.	English Language Activities	5
4.	Mathematical Activities	5
5.	Religious Education Activities	3
6.	Environmental Activities	4
7.	Creative Activities	7
8.	Pastoral/Religious Instruction Programme	1
<b>Total</b>		<b>31</b>

## **NATIONAL GOALS OF EDUCATION**

### **1. Foster nationalism, patriotism, and promote national unity**

Kenya's people belong to different communities, races and religions and should be able to live and interact as one people. Education should enable the learner acquire a sense of nationhood and patriotism. It should also promote peace and mutual respect for harmonious co-existence.

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

Education should prepare the learner to play an effective and productive role in the nation.

#### **a) Social Needs**

Education should instil social and adaptive skills in the learner for effective participation in community and national development.

#### **b) Economic Needs**

Education should prepare a learner with requisite competences that support a modern and independent growing economy. This should translate into high standards of living for every individual.

#### **c) Technological and Industrial Needs**

Education should provide the learner with necessary competences for technological and industrial development in tandem with changing global trends.

### **3. Promote individual development and self-fulfilment**

Education should provide opportunities for the learner to develop to the fullest potential. This includes development of one's interests, talents and character for positive contribution to the society.

- 4 Promote sound moral and religious values**  
Education should promote acquisition of national values as enshrined in the Constitution. It should be geared towards developing a self-disciplined and ethical citizen with sound moral and religious values.
- 5. Promote social equity and responsibility**  
Education should promote social equity and responsibility. It should provide inclusive and equitable access to quality and differentiated education; including learners with special educational needs and disabilities. Education should also provide the learner with opportunities for shared responsibility and accountability through service learning.
- 6. Promote respect for and development of Kenya’s rich and varied cultures**  
Education should instil in the learner appreciation of Kenya’s rich and diverse cultural heritage. The learner should value own and respect other people’s culture as well as embrace positive cultural practices in a dynamic society.
- 7. Promote international consciousness and foster positive attitudes towards other nations**  
Kenya is part of the interdependent network of diverse peoples and nations. Education should therefore enable the learner to respect, appreciate and participate in the opportunities within the international community. Education should also facilitate the learner to operate within the international community with full knowledge of the obligations, responsibilities, rights and benefits that this membership entails.
- 8. Good health and environmental protection**  
Education should inculcate in the learner the value of physical and psychological well-being for self and others. It should promote environmental preservation and conservation, including animal welfare for sustainable development.

## **LEVEL LEARNING OUTCOMES**

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

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

## **ESSENCE STATEMENT**

Environmental Activities is an integrated learning area comprising both environmental, hygiene and nutrition concepts. The learning area builds on knowledge, skills, attitudes and values developed in Environmental Activities Grade 1. Skills of observation, identification, classification, manipulation, recording, interpretation, prediction, environmental conservation, intrapersonal and interpersonal skills are further developed. Experiential learning will be utilised to enable the learner explore the environment through hands-on activities for learning and enjoyment. This will enable the learner to develop a sense of connection and appreciation to the immediate natural environment and its cultural diversity in the endeavour to nurture an engaged and environmentally aware citizen. The competencies acquired will be up-scaled in upper grades through concepts in related learning areas.



## **GENERAL LEARNING OUTCOMES**

By the end of Grade 2, the learner should be able to:

- a) acquire appropriate practical skills and values for problem solving in conserving the environment
- b) communicate appropriate messages for conserving the environment
- c) demonstrate appropriate values, attitudes and practices for sustainable interactions
- d) explore the natural resources in the immediate environment for learning and enjoyment
- e) practise proper hygiene and good health habits to promote the well-being of self, others and the environment
- f) apply acquired competences in solving environmental challenges for sustainable development
- g) participate in community service learning to promote environmental and social well-being
- h) observe safety precautions to limit risks to self and others while exploring the environment
- i) appreciate the country's rich and diverse cultural heritage for harmonious living in the community

## SUMMARY OF STRANDS AND SUB STRANDS

<b>Strands</b>	<b>Sub Strands</b>
1.0 SOCIAL ENVIRONMENT	1.1 Our Home 1.2 Family Needs and Wants 1.3 Our School 1.4 Our National Flag 1.5 Our Rights and Responsibilities 1.6 Our Market
2.0 NATURAL ENVIRONMENT	2.1 Weather 2.2 Soil 2.3 Light
3.0 RESOURCES IN OUR ENVIRONMENT	3.1 Water 3.2 Plants 3.3 Animals

## 1.0 SOCIAL ENVIRONMENT

Strand	Sub Strand	Specific Learning Outcomes	Suggested Learning Experiences	Suggested Key Inquiry Question(s)
<b>1.0 Social Environment</b>	<b>1.1 Our Home</b> (16 lessons)	By the end of the Sub Strand, the learner should be able to: <ol style="list-style-type: none"> <li>a) differentiate between personal and common items used at home,</li> <li>b) identify materials used for cleaning personal and common items at home,</li> <li>c) clean personal and common items using locally available materials,</li> <li>d) advocate for a clean home environment for self and others' well-being.</li> </ol>	The learner is guided to: <ul style="list-style-type: none"> <li>● think, pair and share information on personal items (<i>combs, toothbrush, face towel, handkerchief, socks and shoes, towel, nail cutter, cotton buds</i>) and common items (<i>cups, plates, spoons, bowls, jug</i>) found at home,</li> <li>● draw and colour personal and common items used at home and display them in class (<i>combs, toothbrush, face towel, handkerchief, socks and shoes, towel, nail cutter, cotton buds, cups, plates, spoons,</i></li> </ul>	<ol style="list-style-type: none"> <li>1. How can we keep our home clean?</li> <li>2. Why should we keep the home environment clean?</li> </ol>

			<p><i>bowls, jug</i>),</p> <ul style="list-style-type: none"><li>● recite poems or sing songs on personal items,</li><li>● match personal and common items at home with their uses,</li><li>● sort and group personal and common items found at home according to their uses,</li><li>● observe pictures or animations of different materials used for cleaning personal and common items (<i>assorted cleaning agents, basin, brush, sponge, assorted scourers, sisal fibre, ash, piece of cloth, assorted cleaning agents</i>),</li><li>● enhance innovative thinking in improvising cleaning</li></ul>	
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			<p>materials using locally available resources,</p> <ul style="list-style-type: none"> <li>● watch video clips or demonstrations from a resource person on cleaning personal and common items found at home,</li> <li>● use water sparingly to clean personal items (<i>handkerchief, innerwear, socks, tooth brush, combs</i>) and dry them in the sun,</li> <li>● enhance self-drive when cleaning utensils (<i>cup, plate, spoon, bowls, jug</i>) using suitable soap and soft material (<i>cloth, sisal, knitted/crocheted pads</i>),</li> <li>● observe safety and hygiene after handling</li> <li>● waste materials to avoid communicable</li> </ul>	
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			diseases, ● sort and appropriately dispose of waste after cleaning personal and common items.	
<b>Core Competency to be developed:</b> <b>Critical Thinking and Problem Solving:</b> Learner enhances innovative thinking in improvising cleaning materials using locally available resources.				
<b>Values:</b> <b>Responsibility:</b> Learner enhances self-drive when cleaning utensils at home.				
<b>Pertinent and Contemporary Issues:</b> Learner observes safety and hygiene when washing hands after handling waste materials to avoid communicable diseases.				
<b>Link to other Learning Areas:</b> The skill of sorting draws knowledge learnt in pre-number in Mathematics Activities.				

Strand	Sub Strand	Specific Learning Outcomes	Suggested Learning Experiences	Suggested Key Inquiry Question(s)
<b>1.0 Social Environment</b>	<b>1.2 Family Needs and Wants</b>  (8 lessons)	By the end of the Sub Strand, the learner should be able to: <ol style="list-style-type: none"> <li>a) identify places within the locality where family needs are met,</li> <li>b) classify family needs and wants for financial literacy awareness,</li> <li>c) prioritise family needs over family wants,</li> <li>d) acknowledge different ways of meeting family needs.</li> </ol>	The learner is guided to: <ul style="list-style-type: none"> <li>● observe pictures and photographs of different places where family needs are met (<i>farm, grazing places, sources of water, hospital, market/shopping centres</i>),</li> <li>● draw and colour places where family needs are met,</li> <li>● match places or facilities within the locality where family needs are met,</li> <li>● sort and group pictures of goods and services into family needs and wants,</li> <li>● develop family life skills when sorting and grouping pictures of goods and services into family needs and wants,</li> </ul>	How can we meet our family needs?

			<ul style="list-style-type: none"><li>● watch video clips/listen to a resource person on different ways of meeting family needs,</li><li>● draw and colour different family needs and wants,</li><li>● observe video clips and pictures of different meals taken at different times of the day,</li><li>● keep a daily record of meals eaten at home or school for one week,</li><li>● sort and group different food items into meals and snacks,</li><li>● draw and colour different foods that make a balanced diet in groups,</li><li>● portray a caring attitude when playing a game of picking out flash cards/paper cuttings/pictures that</li></ul>	
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			show family needs.	
<b>Core Competency to be developed:</b>				
<b>Citizenship:</b> Learner develops family life skills when sorting and grouping pictures of goods and services into needs and wants.				
<b>Values:</b>				
<b>Love:</b> Learner portrays a caring attitude when playing games of picking out flash cards/paper cuttings/pictures that show family needs in groups.				
<b>Pertinent and Contemporary Issues:</b>				
<b>Life Skills:</b> Learner develops tolerance when watching video clips of different ways of meeting family needs.				
<b>Link to other Learning Areas:</b>				
Sorting and grouping pictures of goods and services into family needs and wants relates to the skill of counting, sorting and grouping in number activities.				

Strand	Sub Strand	Specific Learning Outcomes	Suggested Learning Experiences	Suggested Key Inquiry Question(s)
<b>1.0 Social Environment</b>	<b>1.3 Our School (8 lessons)</b>	By the end of Sub Strand, the learner should be able to: <ol style="list-style-type: none"> <li>a) name ways of keeping the school environment clean,</li> <li>b) identify common accidents at school,</li> <li>c) clean the school environment for the wellbeing of self and others,</li> <li>d) advocate for a clean and safe school environment.</li> </ol>	The learner is guided to: <ul style="list-style-type: none"> <li>● use video clips or pictures to find out how to keep the school environment clean,</li> <li>● develop the skill of knowing the school by walking around the school compound to find out dangerous places and items (<i>fire places, sharp objects, slippery floors, open pits, plastic bags</i>),</li> <li>● take pictures, draw or write down dangerous places and items in school,</li> <li>● enhance cooperation when cleaning the school environment, (<i>sweeping, disposing of waste, mopping the floor, wiping the windows and furniture</i>) in groups,</li> <li>● recite poems or sing songs</li> </ul>	How can you keep the school environment safe?

			<p>about a clean school environment in groups,</p> <ul style="list-style-type: none"> <li>● role play ways of giving first aid to common accidents in school (<i>suffocation, falls, burns, cuts, choking</i>),</li> <li>● sort paper waste and recycle to make <i>papier-mâché art</i>.</li> </ul>	
<p><b>Core Competency to be developed:</b>  <b>Self Efficacy:</b> Learner develops the skill of knowing the school by walking around the school compound to find out dangerous places and items.</p>				
<p><b>Values:</b>  <b>Unity:</b> Learner enhances cooperation when cleaning the school environment in groups.</p>				
<p><b>Pertinent and Contemporary issues:</b>  <b>Social Economic Issues:</b> Learner develops disaster risk reduction when role playing ways of giving first aid to common accidents in school.</p>				
<p><b>Link to other Learning Areas:</b>  Paper waste recycling relates to concepts of making <i>papier-mâché</i> in Creative Arts.</p>				

Strand	Sub Strand	Specific Learning Outcomes	Suggested Learning Experiences	Suggested Key Inquiry Question(s)
<b>1.0 Social Environment</b>	<b>1.4 Our National Flag</b>  (8 lessons)	By the end of the Sub Strand, the learner should be able to: <ol style="list-style-type: none"> <li>a) identify colours of the Kenya National flag,</li> <li>b) name events in which Kenya National Anthem is sung,</li> <li>c) conduct raising and lowering of the Kenya National flag with etiquette,</li> <li>d) appreciate the importance of the National Anthem.</li> </ol>	The learner is guided to: <ul style="list-style-type: none"> <li>● watch videos or observe pictures with colours of the Kenya National flag in groups,</li> <li>● draw and colour the national flag in pairs,</li> <li>● enhance loyalty when rehearsing and singing the national anthem,</li> <li>● develop active community skills when role playing the expected behaviour (<i>stand at attention, silence, removing hats/caps, facing the flag as a sign of respect</i>) when raising and lowering the National Flag,</li> <li>● watch and listen audio-</li> </ul>	How can you show respect for the Kenya National flag?

			<p>visual clips or read print media to identify occasions when the Kenya National Anthem is sung,</p> <ul style="list-style-type: none"> <li>● find out from parents or guardians the importance of the National Anthem of Kenya.</li> </ul>	
<p><b>Core Competency to be developed:</b></p> <p><b>Citizenship:</b> Learner develops active community skills when observing the expected behaviour related to the National Flag and National Anthem.</p>				
<p><b>Values:</b></p> <p><b>Patriotism:</b> Learner enhances loyalty when singing the National Anthem.</p>				
<p><b>Pertinent and Contemporary Issues:</b></p> <p><b>Citizenship:</b> Learner enhances social cohesion and nationalism when singing the Kenya National Anthem.</p>				
<p><b>Link to other Learning Areas:</b></p> <p>The National flag can be used when learning colours in creative arts.</p>				

Strand	Sub Strand	Specific Learning Outcomes	Suggested Learning Experiences	Suggested Key Inquiry Question(s)
<b>1.0 Social Environment</b>	<b>1.5 Our Rights and Responsibilities</b>  (6 lessons)	By the end of the Sub Strand, the learner should be able to: <ol style="list-style-type: none"> <li>a) outline Child Rights and Responsibilities at home and in the school,</li> <li>b) carry out responsibilities of a child at home and in school,</li> <li>c) appreciate child rights and responsibilities for attainment of social justice.</li> </ol>	The learner is guided to: <ul style="list-style-type: none"> <li>● share expectations and experiences with peers on Child Rights and Responsibilities using age appropriate stories (<i>parental care, health care, protection from exploitation and cruelty</i>),</li> <li>● listen to a resource person on Child Rights and responsibilities in a home or school.</li> <li>● use multimedia resources to explore responsibilities of children at home and in school (<i>keeping peace, caring for one another, respect, keeping the environment clean, caring for home and school property</i>),</li> <li>● develop teamwork when role</li> </ul>	Why are child rights and responsibilities important at home and school?

			playing responsibilities of children in school, <ul style="list-style-type: none"> <li>● enhance social equity when performing age appropriate responsibilities at school.</li> </ul>	
<b>Core Competency to be developed:</b> <b>Communication and Collaboration:</b> Learner develops teamwork when role playing responsibilities of children in school				
<b>Values:</b> <b>Social Justice:</b> Learner enhances equity when performing age appropriate responsibilities at school.				
<b>Pertinent and Contemporary Issues:</b> <b>Citizenship:</b> Learner enhances child rights awareness when sharing own expectations, experiences, duties and responsibilities at home or school.				
<b>Link to other Learning Areas:</b> Listening to a resource person on Child Rights and Responsibilities relates to active listening and speaking in Language Activities.				

Strand	Sub Strand	Specific Learning Outcomes	Suggested Learning Experiences	Suggested Key Inquiry Question(s)
<b>1.0 Social Environment</b>	<b>1.6 Our Market</b>  (8 lessons)	By the end of Sub Strand, the learner should be able to: <ol style="list-style-type: none"> <li>a) identify physical features on the way to the market,</li> <li>b) locate the market using physical features,</li> <li>c) identify activities that take place in the market,</li> <li>d) value things and people found in the market.</li> </ol>	The learner is guide to: <ul style="list-style-type: none"> <li>● think, pair and share physical features on the way to the market,</li> <li>● find out from a parent or guardian some of the main physical features found on the way to the local market,</li> <li>● draw and colour physical features (<i>rivers, bridges, buildings, worship places</i>) found on the way to the local market,</li> <li>● model main physical features found on the way to the local market,</li> <li>● watch video clips, observe pictures or</li> </ul>	How can you locate your local market?



			<p>listen to a resource person or an audio clips on activities that take place in the market, OR visit the nearest market to find out activities that take place (<i>buying, selling, packaging, honest and fair negotiation</i>),</p> <ul style="list-style-type: none"> <li>● enhance honest and fair negotiations when role playing buying and selling activities,</li> <li>● recognise interdependence and connections of people found in the market,</li> <li>● make a shop corner using locally available materials in groups.</li> </ul>	
<p><b>Core Competency to be developed:</b>  <b>Citizenship:</b> Learner recognises interdependence and connections of people found in the market.</p>				

<p><b>Values:</b> Integrity: Learner enhances honest and fair negotiations when role playing on buying and selling.</p>
<p><b>Pertinent and Contemporary Issues:</b></p> <ul style="list-style-type: none"> <li>• Citizenship: Learner enhances acknowledgement for self and others when interacting with people found in the market.</li> <li>• Financial Literacy: Learner develops spending skills when visiting the nearest market to find out activities that take place.</li> </ul>
<p><b>Link to other Learning Areas:</b> Buying and selling in the market can be used to learn the concept of money Mathematics Activities.</p>

### Assessment Rubric

Level \ Indicator	Exceeds Expectation	Meets Expectation	Approaches Expectation	Below Expectation
Ability to locate local market using physical features	Locates local market using precise description of all physical features	Locates local market using physical features (ALL)	Locates local market by mentioning main physical features (2-3)	Locates local market using a single physical feature with prompts
Ability to describe activities that take place in the market	Models activities that take place in the market	Describes activities that take places in the market	Mentions activities that takes place in the market	Names common activities that takes place in the market when prompted
Ability to carry out responsibilities of a child	Carries out responsibilities of a	Carries out responsibilities of a	Carries out responsibilities of a child both at home and	Attempts to carry out responsibilities

at home and in school	child both at home and in school effortlessly	child both at home and in school	in school with reminders	of a child at home and in school with prompts
Ability to conduct raising and lowering of the Kenya National flag with etiquette,	Leads peers in conducting the raising and lowering of the Kenya National flag with etiquette	Conducts the raising and lowering of the Kenya National flag with etiquette	Conducts the raising and lowering of the Kenya National flag with etiquette with prompts	Conducts the raising and lowering of the Kenya National flag with constant reminders for etiquette

## 2.0 NATURAL ENVIRONMENT

Strand	Sub Strand	Specific Learning Outcomes	Suggested Learning Experiences	Suggested Key Inquiry Question(s)
2.0 Natural Environment	2.1 Weather  (12 lessons)	By the end of the Sub Strand, the learner should be able to: <ol style="list-style-type: none"> <li>a) identify weather conditions at different times of the day,</li> <li>b) create a weather record, using weather symbols,</li> <li>c) predict weather conditions at different times of the day,</li> <li>d) develop curiosity in weather conditions experienced in the locality.</li> </ol>	The learner is guided to: <ul style="list-style-type: none"> <li>● discuss weather conditions at different times of the day in groups,</li> <li>● draw weather symbols to represent different weather conditions and display them in class,</li> <li>● observe and record prevailing weather conditions as an outdoor activity in collaboration with peers,</li> <li>● create a weather record using weather symbols for a period of one week in groups,</li> <li>● play relevant and educative computer games on weather</li> </ul>	Why do we need to predict weather?

			conditions, <ul style="list-style-type: none"> <li>● observe pictures, video clips to identify ways of responding to various weather conditions,</li> <li>● role play on ways of responding to various weather conditions,</li> <li>● practice using weather symbols to interpret weather conditions at different times of the day,</li> <li>● develop effective communication skills when participating in a class contest, on narrating weather occurrences for a past week from weather chart recording.</li> </ul>	
<p><b>Core Competency to be developed:</b>  <b>Digital literacy:</b> Learner interacts with digital technology when playing relevant and educative computer games on weather conditions.</p>				

**Values:**

- **Unity:** Learner develops cooperation when observing and recording prevailing weather conditions as an outdoor activity.
- **Integrity:** Learner develops honesty when observing and recording weather conditions over a period of one week.

**Pertinent and Contemporary Issues:**

- **Life Skills:** Learner develops effective communication skills when participating in a class contest, on narrating weather occurrences for a past week from weather chart recording.
- **Learner Support Programs:** Learner develops career guidance skills when creating a weather record using weather symbols for a period of one week in groups.

**Link to other learning areas:**

Drawing weather symbols relates to the skill of drawing and colouring in Creative Activities.

Strand	Sub Strand	Specific Learning Outcomes	Suggested Learning Experiences	Suggested Key Inquiry Question(s)
<b>2.0 Natural Environment</b>	<b>2.2 Soil</b> (8 lessons)	By the end of the sub-strand the learner should be able to: <ul style="list-style-type: none"> <li>a) identify types of soil found in the locality,</li> <li>b) classify types of soil in the locality,</li> <li>c) appreciate different types of soil in the immediate environment.</li> </ul>	The learner is guided to: <ul style="list-style-type: none"> <li>● develop the skill of learning independently when modelling soil ribbons using soil samples (<i>clay, loam, sand</i>),</li> <li>● observe modelled ribbons to find out which soil sample makes smooth long ribbons (<i>use realia or digital devices as applicable</i>),</li> <li>● develop cooperation skills when modelling objects (<i>balls, ribbons, pots</i>) with different types of soil (<i>clay, loam, sand</i>) in groups,</li> <li>● clean working area and wash hands with soap and clean water after handling soil,</li> <li>● classify the types of soil depending on the length of ribbons made, size of particles and texture,</li> <li>● walk within the school compound or visit the school neighbourhood to observe (<i>see, touch, feel</i>) type(s) of soil and share parents or</li> </ul>	How can you identify different types of soil in our environment?

			guardians <ul style="list-style-type: none"> <li>• make paper cuttings or pictures of different types of soil and create a portfolio.</li> </ul>	
<b>Core Competency to be developed:</b> <b>Learning to learn:</b> Learner develop the skill of learning independently when modelling soil ribbons using soil samples ( <i>clay, loam, sand</i> ) and finding out the soil sample that makes smooth long ribbons.				
<b>Values:</b> <b>Unity:</b> learners develop cooperation skills when modelling objects ( <i>balls, ribbons, pots</i> ) with different types of soil( <i>clay loam, sand</i> ) in groups				
<b>Pertinent and Contemporary Issues:</b> <b>Health promotion issues:</b> Learner develops preventive health skills when cleaning working areas and hands with soap and water after handling soil to prevent communicable diseases.				
<b>Link to other Learning Areas:</b> Modelling objects using different types of soil draws knowledge in modelling technique in Creative Activities.				



Strand	Sub Strand	Specific Learning Outcomes	Suggested Learning Experiences	Suggested Key Inquiry Question(s)
2.0 Natural Environment	2.3 Light  (12 lessons)	By the end of the Sub Strand, the learner should be able to: a) identify different sources of light in the environment, b) manipulate objects to form shadows in the presence of light for enjoyment, c) describe ways of conserving light for sustainable supply of light energy, d) appreciate different sources of light in the environment.	Learners are guided as to: <ul style="list-style-type: none"> <li>● observe pictures and photographs of different sources of light in the environment in groups,</li> <li>● develop cooperation skills when manipulating objects (opaque materials) to form shadows in the presence of light for enjoyment in groups,</li> <li>● practice switching off lights when not in use and during day time (<i>when natural light can be used</i>)</li> <li>● create light conservation messages to promote awareness at home and school,</li> <li>● develop writing skills when making posters</li> </ul>	<ol style="list-style-type: none"> <li>1. How can we conserve light energy in our environment?</li> <li>2. Why should we conserve light energy in our environment?</li> </ol>

			<p>with simple messages on conservation of light to create awareness in groups,</p> <ul style="list-style-type: none"> <li>● type messages on conservation of light using digital devices,</li> <li>● recite poems or sing songs on conservation of light energy.</li> </ul>	
<p><b>Core Competency to be developed:</b>  <b>Communication and Collaboration:</b> Learner develops writing skills when making posters with simple messages on conservation of light to create awareness.</p>				
<p><b>Values:</b>  <b>Unity:</b> Learner develops cooperation skills when manipulating objects to form shadows in the presence of light for enjoyment in groups.</p>				
<p><b>Pertinent and Contemporary Issues:</b>  <b>Social Economic Issues:</b> Learner develops financial skills when making posters with simple messages on conservation of light to create awareness.</p>				
<p><b>Link to other Learning Areas:</b>  Posters on energy conservation relates to writing skills in Language Activities.</p>				

### Assessment Rubric

<b>Level</b> <b>Indicator</b>	<b>Exceeds Expectation</b>	<b>Meets Expectation</b>	<b>Approaches Expectation</b>	<b>Below Expectation</b>
Ability to identify the importance of taking balanced diet for healthy living	Identifies the importance of taking balanced diet for healthy living exhaustively	Identifies the importance of taking balanced diet for healthy living	Partly identifies the importance of taking balanced diet for healthy living	Partly identifies the importance of taking balanced diet for healthy living when given cues
Ability to describe ways of conserving light for sustainable supply of light energy	Describes ways of conserving light from various sources for sustainable supply of light energy	Describes ways of conserving light for sustainable supply of light energy	Describes ways of conserving light for sustainable supply of light energy	Describes ways of conserving light for sustainable supply of light energy when given hints
Ability to classify needs and wants for financial literacy awareness	Classifies needs and wants for financial literacy awareness with exactness	Classifies needs and wants for financial literacy awareness	Classifies needs and wants for financial literacy awareness with minimal errors	Classifies needs or wants for financial literacy awareness with many errors
Ability to clean personal items to promote cleanliness for self	Cleans personal items to promote cleanliness for self, most thoroughly	Cleans personal items to promote cleanliness for self	Cleans personal items to promote cleanliness for self, less thoroughly	Cleans personal items to promote cleanliness for self, less thoroughly with prompts

### 3.0 NATURAL ENVIRONMENT

Strand	Sub Strand	Specific Learning Outcomes	Suggested Learning Experiences	Suggested Key Inquiry Question(s)
3.0 Natural Environment	3.1 Water (12 lessons)	By the end of the Sub Strand, the learner should be able to: <ol style="list-style-type: none"> <li>a) identify ways of storing water at home and school,</li> <li>b) conserve water at home and school for future use,</li> <li>c) state the importance of keeping water safe for human and animal use,</li> <li>d) appreciate safe water storage to prevent health risk to self and others.</li> </ol>	The learner is guided to: <ul style="list-style-type: none"> <li>● explore various ways of storing water at home and school,</li> <li>● draw items used to store water at home and school (<i>tanks, drums, pots</i>),</li> <li>● find out ways of storing water at home and share with peers,</li> <li>● enhance hard work skill when storing water in bottles and water cans (<i>500mls - 5 litre containers</i>) for future use at home and school,</li> <li>● watch video clips, pictures and photographs on appropriate ways of</li> </ul>	Why do we store water at home and in school?

			storing water at home and school, <ul style="list-style-type: none"> <li>● share experiences on why water is stored at home and school,</li> <li>● develop teamwork when making visits in the neighbourhood to identify different ways of storing water in groups.</li> </ul>	
<b>Core Competency to be developed:</b> <b>Communication and collaboration:</b> Learner develops teamwork when walking around the neighbourhood to identify different ways of storing water in groups.				
<b>Values:</b> <ul style="list-style-type: none"> <li>● <b>Social Justice:</b> Learner enhances cooperation when making visits in the neighbourhood to identify different ways of storing water in groups.</li> <li>● <b>Responsibility:</b> Learner enhances hard work skills when storing water in bottles and water cans (<i>500mls - 5 litre containers</i>) for future use at home and school.</li> </ul>				
<b>Pertinent and Contemporary Issues:</b> <b>Health Promotion Issues:</b> Learner develops preventive health when storing water appropriately at home and school to prevent communicable diseases.				
<b>Link to other Learning Areas:</b> Drawing items used to store water relates to the skill of drawing and colouring in Creative Activities.				

Strand	Sub Strand,	Specific Learning Outcomes	Suggested Learning Experiences	Suggested Key Inquiry Question(s)
<b>3.0 Natural Environment</b>	<b>3.2 Plants</b> (10 lessons)	By the end of the Sub Strand, the learner should be able to: <ul style="list-style-type: none"> <li>a) identify ways of caring for plants using locally available materials,</li> <li>b) carry out activities for caring of plants using locally available materials,</li> <li>c) advocate for plant protection for environmental sustainability.</li> </ul>	The learner is guided to: <ul style="list-style-type: none"> <li>● observe pictures, photographs or watch video clips of people watering, manuring and mulching plants,</li> <li>● water, manure and do mulching for some plants in the school compound in groups,</li> <li>● observe pictures, photographs or video clips of healthy plants that have been conserved, in groups,</li> <li>● develop self-drive skills when creating plant protection messages using hand written, electronic or print resources in groups,</li> <li>● recite poems and sing</li> </ul>	How can you care for plants in the environment?

			songs on plant protection.	
<p><b>Core Competency to be developed:</b>  <b>Creativity and Imagination:</b> Learner develops originality when creating plant protection messages using hand writings, electronic or print resources</p>				
<p><b>Values:</b>  <b>Responsibility:</b> Learner develops self-drive skills when creating plant protection messages using hand written, electronic or print resources in groups.</p>				
<p><b>Pertinent and Contemporary Issues:</b>  <b>Citizenship:</b> Learner develops environmental education and climate change skills when watering, manuring and mulching plants in the school compound.</p>				
<p><b>Link to other Learning Areas:</b>  Messages on plant protection relates to writing skills in Language Activities.</p>				

Strand	Sub Strand	Specific Learning Outcomes	Suggested Learning Experiences	Suggested Key Inquiry Question(s)
<b>3.0 Natural Environment</b>	<b>3.3 Animals</b> (12 lessons)	By the end of the Sub Strand, the learner should be able to: <ul style="list-style-type: none"> <li>a) identify food items we get from animals,</li> <li>b) relate food items with respective animals,</li> <li>c) carry out activities of caring for animals in the locality,</li> <li>d) advocate for clean and secure animal shelters to reduce risk to the animals.</li> </ul>	The learner is guided to: <ul style="list-style-type: none"> <li>● observe pictures and photographs of different foods we get from animals,</li> <li>● match and group food items from animals and display in class,</li> <li>● watch pictures, videos or listen to a resource person on ways of caring for animals (<i>fair treatment, feeding, cleaning, medical care, appropriate shelter</i>),</li> <li>● develop speaking and listening skills when discussing importance of fair treatment of animals in groups,</li> <li>● observe videos on ways of keeping an animal shelter clean,</li> </ul>	Why should an animal stay in a clean place?



			<ul style="list-style-type: none"> <li>● develop empathy skills when feeding and cleaning animal shelter at home or school,</li> <li>● wash hands with soap and water after cleaning animal shelter,</li> <li>● dispose of waste appropriately after cleaning an animal shelter.</li> </ul>	
<p><b>Core Competency to be developed:</b>  <b>Communication and Collaboration:</b> Learner develops speaking and listening skills when discussing importance of fair treatment of animals in groups.</p>				
<p><b>Values:</b>  <b>Love:</b> Learner develops empathy skills when feeding and cleaning animal shelter at home or school.</p>				
<p><b>Pertinent and Contemporary Issues:</b>  <b>Social Economic Issues:</b> Learner develops animal welfare awareness when participating in cleaning animal shelters at home or school.</p>				
<p><b>Link to other Learning Areas:</b>  Matching, sorting and grouping food items from animals draws the skills of sorting and grouping in Mathematics Activities.</p>				

**Assessment Rubric**

<b>Level</b> <b>Indicator</b>	<b>Exceeds Expectation</b>	<b>Meets Expectation</b>	<b>Approaches Expectation</b>	<b>Below Expectation</b>
Ability to describe different types of soil in the locality	Describes ALL types of soil in the locality with clarity and accuracy	Describes different types of soil in the locality	Describes one type of soil in the locality with accuracy	Describes one type of soil in the locality with hints
Ability to carry out activities for caring of plants using locally available materials	Carries out activities for caring of plants using locally available materials effortlessly	Demonstrates care for plants in the environment	Describes care for plants in the environment with minimal effort	Mentions on how to care for plants in the environment with much effort
Ability to conserve water for human and animal use	Conserves water for human and animal use using varied methods effortlessly	Conserves water for human and animal use	Conserves water for human and animal use with less effort	Conserves water for human and animal use with prompts and much effort
Ability to carry out activities of caring for animals in the locality	Carries out activities of caring for animals in the locality effortlessly	Carries out activities of caring for animals in the locality	Carries out activities of caring for animals in the locality with minimal effort	Carries out activities of caring for animals in the locality with much effort

## APPENDIX I

### Community Serve Learning at Lower Primary

At this sub-level, the goal of the CSL activity is to provide linkages between concepts learnt in the various Learning Activities and the real life experiences. Learners begin to make connections between what they learn and the relevance to their daily life. CSL is hosted in the Environmental Activities learning area. The class teacher is expected to identify and guide learners to undertake age-appropriate whole-class integrated CSL activity within the school. The safety of the learners should also be taken into account when selecting the CSL activity. The following steps for the integrated CSL activity should be staggered across the school terms:

<b>Steps in carrying out the integrated CSL activity</b>
<p><b>1) Preparation</b></p> <ul style="list-style-type: none"><li>• Determine the activity for the learners</li><li>• Map out the targeted core competencies, values and specific learning areas skills for the CSL activity</li><li>• Identify resources required for the activity (locally available materials)</li><li>• Stagger the activities across the term (Set dates and time for the activities)</li><li>• Communicate to learners, parents/caregivers/guardians, school administration, teachers and other relevant stakeholders in the school community</li><li>• Identify and develop assessment tools</li></ul>
<p><b>2) Implementation of CSL Activity</b></p> <ul style="list-style-type: none"><li>• Assigning roles to learners.</li><li>• Ensure every learner actively participates in the activity</li><li>• Observe learners as they carry out the CSL activity and record feedback.</li><li>• Use an appropriate assessment tool to assess both the process and the product (Assess learner’s work from the beginning to the end product)</li></ul>

Assess the targeted core competencies, values and subject skills.

### **3) Reflection on the CSL Activity**

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

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

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

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

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

### **Assessment of the CSL Activity**

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

## APPENDIX II

### Suggested learning resources, assessment methods and Non-formal Activities

<b>Suggested learning resources</b> <ul style="list-style-type: none"><li>● Approved curriculum support materials</li><li>● Resources from the local environment (<i>home and school</i>)</li><li>● Flash cards</li><li>● Pictures, newspapers, magazines, journals</li><li>● Digital devices</li><li>● Assorted farm equipment</li><li>● Assorted cleaning agents, tools and equipment</li><li>● Resource persons</li></ul>	<b>Suggested assessment methods</b> <ul style="list-style-type: none"><li>● Observation</li><li>● Written test</li><li>● Oral questions</li><li>● Aural questions</li><li>● Peer assessment</li><li>● Self-assessment</li></ul>
<b>Non-formal Activities that Support Learning</b> <ul style="list-style-type: none"><li>● School routine activities such as cleaning, flag raising, worship activities</li><li>● Games and sports</li><li>● Clubs and societies</li></ul>	