

Curriculum design Environmental activities Grade three

Strand	Sub-strand	Specific learning outcomes	Suggested learning experiences	Key inquiry question(s)
1.0 Environment and its resources	1.1 Weather (5 Lessons) 1.1.1 Exploring unfavourable weather conditions	By the end of the sub-strand, the learner should be able to: a. Describe unfavourable weather conditions b. Observe the effects of unfavourable weather conditions for safety c. Develop curiosity in identifying effects of weather conditions in the environment.	 Using relevant stimulus materials, learners to discuss the meaning of unfavourable weather conditions (floods and drought) Using multimedia resources, learners to play relevant educative games on effects of unfavourable weather conditions. In groups, learners to share their experiences on effects of unfavourable weather conditions. Learners to listen to stories on unfavourable weather conditions and its effects from elders in the community. Learners gather more information on unfavourable from internet sources, libraries. Then write a paragraph on each unfavourable weather condition 	1. How could weather conditions be unfavourable? 2. What happens when the weather conditions become unfavourable?
	1.1.2 Keeping safe from unfavourable weather	By the end of the sub-strand, the learner should be able to:	 using age appropriate stimulus, learners could be guided to identify ways of keeping safe from unfavourable weather conditions (floods,	How could we keep safe from unfavourable weather conditions



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conditions	 a. Identify ways of keeping safe from unfavourable weather conditions b. Keep safe from unfavourable weather conditions 	drought) In groups, learners share experiences on how to keep safe from unfavourable weather conditions Learners to simulate how to keep safe from unfavourable weather conditions	
	c. Demonstrate knowledge of keeping safe from	guardians on how to keep safe during unfavourable weather conditions and report back.	



Core Competences to be developed: Communication and collaboration,	critical thinking and problem solving, digital literacy.
Link to PCIs: ESD: Environmental Education; effects of	Links to values: Responsibility; respect-learners share experiences in groups
unfavourable weather; Disaster Risk Reduction, concern on effects of	
unfavourable weather	
Citizenship: Social Cohesion: Learners share experiences	
Links to other learning activity areas: Languages: listening to	Suggested Community Service Learning activities: Learners to interact
cultural stories on weather.	and find out from their parents or guardians on how to keep safe during
	unfavourable weather conditions.
Suggested non formal activity to support learning through	Suggested assessment: Written work, oral questioning and
application: Learners to develop keep safe messages for the	simulated computer exercises.

Suggested Assessment Rubric

Sub-strand	Exceeds expectation	Meets expectation	Approaches expectation	Below expectation
Exploring unfavourable	Consistently and correctly	Demonstrate ability to	Demonstrates some	Unable to demonstrate ability
weather conditions	describes unfavourable	observe and identify effects	knowledge to observe and	to observe and identify effects
	weather and identifies its	of unfavourable weather	identify effects of	of unfavourable weather and
	effects	and keep safe from	unfavourable weather and	keep safe
		unfavourable weather	how to keep safe.	
Keeping safe from	Consistently and correctly	Correctly identifies ways of	Sometimes identifies ways of	Rarely identifies ways of
unfavourable weather	identifies ways of keeping	keeping safe and	keeping safe and	keeping safe or demonstrates
conditions	safe and demonstrates	demonstrates knowledge of	demonstrates knowledge of	knowledge of keeping safe
	knowledge of keeping	keeping safe from	keeping safe from	from unfavourable weather
	safe from unfavourable	unfavourable weather	unfavourable weather	conditions.
	weather conditions.	conditions.	conditions.	



Strand	Sub strand	Specific learning outcomes		Suggested learning experiences	Key inquiry question
1.0 Environment and its resources	1.2 Water (5 lessons) 1.2.1 Making water safe for use	By the end of the sub-strant the learner should be able to a. Identify ways of making clean and safe for use in b. Make water clean and safe different methods c. Construct a simple water for cleaning water at hond. Appreciate clean and safe use to reduce health risks	water the home fe using filter ne e water for	 Learners to listen and respond to case story on the need to use clean and safe water. Learners to share experiences on how to make water clean and safe for use in the home Learners to observe a sample of dirty water and discuss how the water could be made clean and safe for use (decantation, filtering, boiling) Learners to make a simple water filter using locally available materials Learners to decant filter and boil water to make it clean and safe for use. 	How could we make water clean and safe for use in the home?
Core-competence to be developed: Critical thinking and problem sol Links to PCI's: ESD-Environmental Education: Environment and water, Effective communication: learners name methods of making water clean and safe for use Links to other learning activity areas (s): Hygiene and Nutrition, Movement and Creative art; Literacy Suggested non-formal activity to support learning through application: Giving a message at the school assembly on clean			Links to val	cation and collaboration, imagination and coues: Responsibility and teamwork as they not community Service Learning activities: should different ways of making water clean and essessment: Oral questions, observe as they	nake a simple water filter naring with parents d safe for use.

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Suggested Assessment Rubric

Exceeds Expectation	Meets Expectation	Approaches Expectation	Below Expectation	
Consistently and correctly identifies ways of making water clean, creatively constructs a simple water filter, and makes water clean and safe for use at home.	 Correctly identifies ways of making water clean, constructs a simple water filter, and makes water clean and safe for use at home. 	 Sometimes identifies ways of making water clean, constructs a simple water filter, and makes water clean and safe for use at home. 	Rarely identifies ways of making water clean, constructs a simple water filter, or makes water clean and safe for use at home.	

Strand	Sub –strand	Specific learning outcome	Suggested learning experiences	Key inquiry question(s)
1.0 Environment and its	1.3 Soil	By the end of the sub-strand, the learner should be able to:	Learners to explore the environment and	How could we differentiate
resources	(10 Lessons) 1.3.1 Exploring	a. Differentiate soils by texture from provided soil samples	collect different soil samples (sand, loam and clay) In groups, learners to feel between their	types of soils?



soil characteristics	 b. Differentiate soils by size of soil particles from provided soil samples c. Name the three types of soils based on their characteristics d. Develop interest in characteristics of soils as an environmental resource. 	fingers the different soil samples and record findings (course, medium, fine) Learners to share their experiences on how different samples of soils feel between their fingers Learners to observe the particle sizes of the three soil samples (large, medium and small sized particles) Learners to mount (using glue) the different soil samples on a chart. Learners to display the chart in the learning corner. Learners find out from parents or guardians on the types of soils found in their locality and	
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Core-competence to be development: Communication and collaboration, critical thinking and problem solving, learning to learn				
Links to PCI's: Effective communication: learners name types of	Links to values: Unity –in groups learners discuss characteristics of soil.			
soil; ESD: Environmental Education: Environment and soil.				
Links to other learning activity areas (s): Movement and Creative	Suggested community Service Learning activities: Find out and report			
Arts activities – displaying types of soils.	back from parents or guardians on the types of soils found in their			
Suggested non-formal activity to support learning through application:	Suggested assessment: Oral questions, observation as they work in			
Recite a poem on soil.	groups, written questions, assessing the displayed project.			

Suggested Assessment Rubric

Exceeds expectation	Meets expectation	Approaches expectation	Below expectation
Consistently and correctly	Correctly differentiates soil textures,	Sometimes differentiates soil	Rarely differentiates soil textures,
differentiates soil textures, size of	size of particles and deduces name of	textures, size of particles and deduces	size of particles or deduces name
particles and deduces name of soil	soil based on their characteristics.	name of soil based on their	of soil based on their
based on their characteristics.		characteristics.	characteristics.

Strand	Sub-strand	Specific learning outcomes	Suggested learning experiences	Key inquiry
				question(s)
1.0		By the end of the sub-strand,		How could we
Environment	1.4 Plants	the learner should be able to:	Learners to carry out a nature walk to	categorize plant
and its			observe and identify the plants	

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`	,	Identify different types of plants Categorize plants in the immediate environment according to specified features Appreciate the rich diversity in plants.	 (edible/non-edible, thorny/non-thorny, poisonous/non-poisonous) Learners to take photographs of different plants during the nature walk Using relevant stimulus materials, learners to be guided to categorize plants according to specified features 	
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	1.4.2Safety	By the en	nd of the sub-strand, the		poisonous/non-poisonous) Learners to draw one type of plant and share their work with others.	How could we
	when handling plants	a. Descriplants b. Obseriplants c. Appreries	hould be able to: ibe safe ways of handling ve safety when handling in the immediate enviror ciate the need to handle pasibly to reduce health ris	different different nment plants sks.	 Learners to watch video clips or pictures or posters on safety when handling plants Learners listen to a resource person on safety when handling plants Learners to share information on how to handle different plants Learners to simulate safety when handling plants. 	handle plants safely?
			thinking and problem so			11 1 1 1 1
	Disaster risk reduct nvironmental Educ		when handling	Link to value	es: Responsibility, care for plants, respect the rich	diversity in plants.
Links to other	Links to other learning activity areas: Hygiene and Nutrition		Suggested Community Service Learning through application: Learners listen to a guest speaker on plant safety.			
	formal Activity to ssage on safe ways				sessment: oral questions, written questions, e-ass	sessment or quiz.

Suggested Assessment Rubric

Sub-strand	Exceeds expectations	Meets expectation	Approaches Expectation	Below expectation
	1		11	<u> </u>



Categorizi	Consistently and correctly	Correctly identify and	Sometimes identify and categorize plants	Rarely identify or
ng plants	identify and categorize plants	categorize plants according to	according to specified features.	categorize plants
	according to specified features.	specified features.		according to specified
				features.
Safety	Consistently and correctly	Correctly describes and observe	Sometimes describes and observe safety when	Rarely describes or
when	describes and observe safety	safety when handling plants.	handling plants.	observes safety when
handling	when handling plants			handling plants
plants				





Strand	Sub-strand	Specific learning outcomes	Suggested learning experiences	Key question(s)
1.0 Environme nt and its resources	1.5 Animals (10 Lessons) 1.5.1 Importance of animals	By the end of the sub-strand, the learner should be able to: a. State different uses of animals to people b. Identify different animals that provide food products c. Appreciate the importance of animals to the people.	 Learners to use stimulus materials to identify the different uses of animals to people (source of food, security, companionship, manure, animal power, sports, tourist attraction) Learners discuss the different food products people get from animals (meat, milk, eggs, honey) In groups, learners make a journal on uses of animals to people as a class project. Learners discuss with the teacher the suggested assessment criteria for the project and timeframe. 	What are the uses of animals to people
_	<u> </u>	to learn, Critical thinking and pro	oblem solving, creativity and imagination, communi	cation
and collabora				
Link to PCI	's: ESD: animal welfare Educatio		Link to values: Responsibility, care, love: learners a	ppreciate
its resources.			the usefulness of animals to people.	
	affective communication; learners	state the importance		
of animals to humans.				
	Link to other learning activity areas: Religious Education: appreciating		Suggested community service learning activity: Finding out on the	
God's creation	on.		uses of different animals from parents or guardians.	
00	on formal activity to support lea ect for the other learners to appre	8	Suggested assessments Oral questions, observe as they work in groups, write	en questions.

Suggested Assessment Rubric

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Exceeds expectations	Meets expectation	Approaching expectations	Below expectation
Consistently and correctly states	Correctly states the uses of	Sometimes states the uses of	Rarely states the uses of animals
the uses of animals to people and	animals to people and identifies	animals to people and identifies	to people or identifies different
identifies different food products	different food products people	different food products people	food products people get from
people get from animals.	get from animals.	get from animals.	animals.



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Strand	Sub strand	Specific learning outcomes	Suggested learning experiences	Key inquiry question
1.0 Environmen t and its resources	1.6 Energy: Heat (10 Lessons) 1.6.1 Sources of Heat	By the end of the sub-strand, the learner should be able to: a. Identify sources of heat in the environment b. Match different sources of heat to their fuels in the environment c. Appreciate the different sources of heat in the community.	 Using relevant stimulus materials, learners to identify sources of heat in the environment (sun, gas cooker, electric cooker, charcoal burner, traditional jiko, stove) Learners to think, pair and share their experiences on sources of heat at home and community In groups, learners to match the different sources of heat with the fuels used (gas, electricity, charcoal, firewood, kerosene) Learners interact with parents or guardians to appreciate the types of fuels used in the community and report back. 	What are the sources of heat?
	1.6.2Uses of heat in the environment	By the end of the sub-strand, the learner should be able to: a. Identify uses of heat energy in the environment b. Use heat energy responsibly to promote conservation and safety c. Appreciate conservation of heat energy in daily life.	 Learners to discuss uses of heat energy (warming, cooking, ironing, drying) Learners to use multimedia resources to find out uses on heat energy in daily life. In groups, learners to share experiences on appropriate use of energy in the environment to conserve heat energy (when warming, ironing, cooking, drying) 	How is heat energy used in daily life
	1.6.3Dangers of heat energy	By the end of the sub-strand, the learner should be able to:	Learners to identify materials that could start	

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 a. Identify materials that can start fire in the house b. Identify dangers of heat energy at home c. Demonstrate an understanding of safe ways of moving from 	gas, electricity) Learners are guided to identify common causes of fire. Learners simulate safe ways of moving out of the house in case of a fire outbreak.	1. What are the dangers of heat energy? 2. Which materials cause fire?
the house in case of a fire outbreak.	 Learners to visit a fire station for more information on fires and safety procedures. 	3. How should we safely move away in case of a fire





	Learners to develop "Dos" and "Don'ts "list during fire outbreaks. The list should be shared at school and at home. house?
Core-competence to be development: Collaboration and communicat	
Links to PCI's: ESD: Disaster Risk Reduction;	Links to values: Cooperation, responsibility and respect
Environmental Education: Environment and its resources:	
Energy	
Life skills: Effective communication; learners discuss in	
Links to other learning activity areas (s): Hygiene and Nutrition	Suggested community Service Learning activity: visit to a fire station
Suggested non-formal activity to support learning through application: Sharing the DOs and DONT's during fire outbreak in a school assembly.	Suggested assessment: observation, oral questions, and written exercises.

Suggested Assessment Rubric

Sub-strand	Exceeds expectations	Meets expectation	Approaches expectation	Below expectation
Sources of heat	Consistently and correctly	Correctly identifies sources	Sometimes identifies	Rarely identifies sources of
	identifies sources of heat	of heat and matches the heat	sources of heat and	heat or matches the heat to
	and matches the heat to	to their fuels.	matches the heat to their	their fuels.
	their fuels.		fuels.	
Uses of heat in the	Consistently and correctly	Correctly identifies and uses	Sometimes identifies and	Rarely identifies and uses heat
environment	identifies and uses heat	heat sources and appreciates	uses heat sources and	sources or appreciates
	sources and appreciates	conservation of heat in the	appreciates conservation	conservation of heat in the
	conservation of heat in	environment.	of heat in the	environment.
	the environment.		environment.	



Dangers of heat	Consistently and correctly	Correctly identifies material	Sometimes identifies	Rarely identifies material that
	identifies material that can	that can start fire, dangers of	material that can start	can start fire, dangers of heat
	start fire, dangers of heat	heat and demonstrates moving	fire, dangers of heat and	or demonstrates moving out
	and demonstrates moving	out for safety.	demonstrates moving out	for safety.
	out for safety.		for safety.	



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Strand	Sub-strand	Specific learning outcomes	Suggested learning experiences	Key inquiry question(s)
2.0 Social	2.1 Harmonious	By the end of the sub-strand,		How could we keep our
Environment	Living in the	the learner should be able	 Learners to visit a market place, explore 	market place clean?
	Community	to:	the sanitation	
	(25 Lessons) 2.1.1 Sanitation in the community	 a. Describe ways of keeping the market place clean b. Participate in keeping the market place clean to promote social cohesion c. Appreciate a clean market place for good health. 	 Learners to observe cleaning activities at a market place from a video clip or photograph Learners to reflect think and share their experiences on the sanitation situation in the market place. Learners to discuss ways of keeping the market place clean. Learners to discuss the importance of keeping the market clean Learners to discuss the role their parents or guardians play during a market cleaning days 	



2.2 Keeping safe in the	By the end of the sub-strand, the learner should be able	Lagrange to liston actively to a relevant	How could we respond
community 2.2.1 Responding to strangers	 a. Identify appropriate ways of responding to strangers in the community b. Respond appropriately to strangers in the community c. Take personal responsibility in keeping safe to limit risks. 	 Learners to listen actively to a relevant age appropriate case story on responding to strangers Learners to watch a video clip on how they could respond appropriately to strangers In groups, learners to reflect, share and report back their experiences about responding to strangers Learners are guided on how to use phone when in danger Learners to simulate ways of responding appropriately to strangers Learners to find out from parents or 	appropriately to strangers?

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	2.2.2Safe and dangerous places in the Ecommunity	By the end of the sub-strand, the learner should be able books.com a. Identify safe places in the community b. Identify dangerous places in the community c. Keep personal safety in the community d. Respond appropriately to security threats in the community.	 Learners to discuss and identify safe places in the community Learners to discuss and identify dangerous places in the community Learners to do age appropriate community mapping to identify and mark the safe places and dangerous places Learners to recognize indications of dangerous places and situations using the map Learners to respond appropriately to threats against safety Learners to discuss with their parents or guardians about dangerous places in the community and report back. 	What are the safe places in the community? What are the dangerous places in the community?
	2.3 Safe Travel 2.3.1 Basic road safety signs	By the end of the sub-strand, the learner should be able to: a. Recognize basic road safety signs b. Use basic road safety signs appropriately to enable safe travel c. Appreciate the use of basic road safety signs in enabling safe travel.	 Learners to observe stimulus materials to recognize basic road safety signs (pedestrian Learners to visit a nearby road or children's park for a demonstration on appropriate use of the basic road signs Learners to play an educative multimedia game on basic road signs erossing, stop sign, traffic lights) Learners to ask their parents or guardian to take them on a safety walk around their neighbourhood and report back. 	How do basic road safety signs enable safe travel?
DOWNLOAD MORE	2.4 Environmental and cultural events in the community ERESOURCES LIKE T	By the end of the sub-strand, the learner should be able to: a. State how cultural events promote environmental and social wellbeing in the	Learners to use stimulus materials on cultural and environmental events in the community Learners to discuss on environmental and cultural events that promote social wellbeing (tree planting, cultural festivals) Learners are guided on how they could	1. What is the importance of environmental and cultural events? 2. How could we participate in

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that soon cool cool cool en ev	articipate in cultural events at promote environmental and ocial wellbeing in the ommunity evelop interest in avironmental and cultural vents that promote social ellbeing in the ommunity.	participate in events that promote environmental and social well being Learners to find out from elders, parents or guardians about environmental and cultural events that promote social wellbeing and report back. unication and collaboration, learning to learn: gathering	information from parants	
or guardians	ativity and imagination, comm	unication and condocration, learning to learn. gamering	information from parents	
Link to PCIs: Citizenship: social cohesio	on; learners discuss roles	Link to values: Responsibility, peace, social justice.		
of community in caring for environmental	resources			
ESD : Environmental Education, harmonio	ous living in the community.			
Links to other learning activity areas: Movement and		Suggested Community Service Learning activities: Learners		
Creative activities, Languages: on listening to case stories.		gathering information from parents or guardians.		
	Suggested non formal activity to support learning		Suggested assessment: Observation, oral questions and written work.	
through application: sharing messages du	uring community			

Suggested Assessment Rubric

Sub-strand	Exceeds expectations	Meets expectation	Approaches Expectation	Below expectation
Sanitation in the	Consistently and actively	Actively participates in keeping the	Sometimes occasionally	Rarely participates in keeping
community	participates in keeping the	market place clean and appreciates	participates in keeping the	the market place clean.
	market place clean and	a clean market.	market place clean.	
	appreciates a clean market.			

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Keeping safe in the	Creatively and	Responds appropriately to strangers	Sometimes responds to	Rarely responds to strangers
community	appropriately responds to	and takes personal responsibility to	strangers appropriately or	appropriately or takes personal
	strangers and takes	keeping safe.	takes personal	responsibility to keeping safe.
	personal responsibility to		responsibility to keeping	
	keeping safe.		safe.	
Safe and dangerous places	Consistently and correctly	Correctly identifies safe and	Sometimes identifies safe	Rarely identifies safe and
in the community	identifies safe and	dangerous places and responds	and dangerous places and	dangerous places or responds
	dangerous places and	appropriately to security	responds appropriately to	appropriately to security
	responds appropriately to	threats.	security threats.	threats.

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	security threats.			
Basic road safety signs	Consistently and correctly identifies and uses basic road safety signs for safe travel.	Correctly identifies and uses basic road safety signs for safe travel.	Sometimes identifies and uses basic road safety signs for safe travel.	Rarely identifies and uses basic road safety signs for safe travel.
Environmental and cultural events in the community	Innovatively and actively identifies and participates in environmental and cultural events that promote social wellbeing in the community.	Actively identifies and participates in environmental and cultural events that promote social wellbeing in the community.	Sometimes identifies and participates in environmental and cultural events that promote social wellbeing in the community.	Rarely identifies or participates in environmental and cultural events that promote social wellbeing in the community.

Strand	Sub strand	Specific learning outcome	Suggested learning experiences	Key inquiry
				question(s)
2.0 Social	2.2 Enterprise	By the end of the sub-strand,		What activities
environment	projects	the learner should be able to:	 Learners to identify ways of using 	could learners
	(25 Lessons)		waste to generate income (Collection,	undertake to
	2.2.1 Waste	a. Identify ways of using waste	sorting, Reducing Reusing, recycling)	generate income
	management for	responsibly to generate income	Learners to observe varied stimulus	from waste
	income generation	b. Determine suitable waste management	materials in waste management	management

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project at school.	activity to generate income at school c. Participate in waste management activity to generate income at school d. Develop interest in undertaking income generating activities in waste management.	activities to derive suitable activities for income generation Learners to discuss and identify suitable waste management activity that could be undertaken by the class to generate income (age appropriate activity) Learners to discuss and develop a plan to undertake the income generating activity that will use waste from the
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		immediate environment Learners to implement the selected project for managing waste to generate income Learners to discuss with parents or guardians on waste management activity that could generate income at home.	
Core-competence to be developed: Crit to build consensus.	ical thinking and problem solving; reusing	and recycling wastes. Communication and collaboration: discuss	ions
Link to PCI's: ESD: Environmental Edu	ication: social	Link to values: Responsibility; learners find out from parents	
environments Financial literacy: Enterpri		income generating activities	
	are ideas on income generating activities.		
Suggested non-formal activity: discussion on importance of managing waste		Suggested community Service Learning activity:	
to generate income.		Find more from parents or guardians on how to sell products	
Links to other learning activity areas (s):		Suggested assessment: Oral questions, Project work	
Mathematics; Money			

Suggested Assessment Rubric

Exceeds expectations	Meets expectation	Approaches	Below expectation
		expectation	



Consistently and creatively identify and	Creatively identify and determine	Sometimes identify and	Rarely identify and determine
determine ways of using waste to	ways of using waste to generate	determine ways of using waste	ways of using waste to generate
generate income and participate actively	income and participate actively in the	to generate income and	income and participate actively
in the waste management project.	waste management project.	participate actively in the waste	in the waste management project
		management project.	



Strand	Sub-strand	Specific learning outco	omes	Suggested learning experiences	Key inquiry question(s)
3.0 Caring for the environment	3.1Caring for Plants (5 Lessons) 3.1.1 Communicating plant protection messages in the community.	a. Give ways of protection the community b. Create persuasive many plants protection in community c. Communicate messary protect plants in the d. Appreciate plant protect plant protection in the community.	able to: eting plants nessages on the ages that community	 Learners to explore and identify areas where plants have been destroyed in community Learners to discuss and create plant protection messages. Learners to design plant protection messages using print and electronic media. Learners to display and peer asses the plant protection messages. Learners to recite or sing songs on plant protection messages during school assembly. Learners to convey the plant protection messages to the community through print and electronic media. 	How could we communicate plant protection messages in the community?
			on, Imagination	n and creativity and Learning to learn.	1
Link to PCIs: the environment Citizenship: P	ESD: Environmental Education ont; caring for plants lant protection. Life skills: coop on messages and peer assessment	n: Care for peration: creating		ies: Responsibility learners convey plant pr	rotection messages through
	c learning activity areas: Lang		Suggested C	community Service Learning activities: c	ommunicating

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Creative Art in reciting poems, singing songs and creating	plant protection messages to the community in various fora.
Suggested non formal activity to support learning: Share	Suggested assessment: written and oral work; observation
plant protection messages at school assembly, clubs and	

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Exceeds expectations	Meets expectation	Approaches expectation	Below expectation
Consistently and correctly	Correctly identifies, creates,	Sometimes identifies, creates,	Rarely identifies, creates,
identifies, creates, communicates	communicates and appreciates plant	communicates and appreciates plant	communicates and appreciates
and appreciates plant protection	protection messages.	protection messages.	plant protection messages.
messages.			

Strand	Sub strand	Specific learning outcome	Suggested learning experiences	Key inquiry question(s)
3.0 Caring for the environment	3.2 Caring for Animals (5 Lessons) 3.2.1 Caring for animals in distress	By the end of the sub-strand, the learner should be able to: a. Recognize signs of distress in animals b. Care for animals in distress c. Appreciate the need to relieve animals of distress.	 In groups, learners to discuss their experiences on how animals in distress are handled in the community Learners to use stimulus materials to develop understanding of various signs of distress in animals Learners to visit a nearby farm to learn and practice some care activities for animal Learners to be guided by a guest speaker on animal rights, freedoms and appropriate 	1. What indicates that an animal is in distress? 2. How could we respond to an animal in distress?
Core-compete	nce to be develop	ed: Communication and collaboration in	group activities	
		Telfare Education, caring for animals tion; learners identify signs of	Links to values: responsibility and unity in groups learner	s work.



distress in animals	
Links to other learning activity areas (s): Religious Studies:	Suggested Community Service Learning activities: field visit to a farm to
appreciating animals as God's creation	learn about animal care.
Suggested non-formal activity to support learning: Debate	Suggested Assessment: Oral question and written work.
on animal rights.	



Exceeds expectation	Meets expectation	Approaches expectation	Below expectation
Consistently and correctly	Correctly recognizes, cares and	Sometimes recognizes, cares and	Rarely recognizes, cares or
recognizes, cares and appreciates	appreciates relieve of distress in	appreciates relieve of distress in	appreciates relieve of distress in
relieve of distress in animals.	animals.	animals.	animals.

Strand	Sub-strand	Specific learning outcomes	Suggested learning experiences	Key inquiry
				question(s)
3.0 Care for the environment	3.3 Managing waste (10 Lessons) 3.3.1 Disposing of waste in the community	By the end of the sub-strand, the learner should be able to: a. State ways of disposing of waste in the community b. Participate in disposing of waste in the community c. Dispose waste responsibly to limit risks to self, others and the environment	 Learners to discuss various types of waste in the community (avoid sewage and e-wastes) Learners to watch a video clip on a waste dump site and identify the various types of waste, how they are sorted and disposed of responsibly Learners to reflect, think and share ideas about types of waste and how they could be sorted and disposed of. Learners to demonstrate sorting and disposal of waste in the community. 	How could we dispose of waste in the community responsibly



3.3.2Communicatin g messages on managing waste By the end of the sub-strand, the learner should be able to: a. Recognize persuasive messages on how to manage waste b. Use hand, print and electronic media	 Learners to observe messages on managing waste from different media Learners to discuss ways of communicating messages on managing waste learners to be guided to create using 	How could we communicate messages on waste management?
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	to create messages on how to manage waste in the communicate messages on management of wastes in the community.	nity waste management Learners to peer assess then display to the
3.3.3Engaging parents or guardians in waste management	By the end of the sub-strand, the learner should be able to: a. Identify ways of involving pror guardians in waste manage b. Involve parents or guardians in waste management c. Appreciate the participation of parents or guardians in waste management	ement ways of managing waste and report back
Core Competences to be developed	: Critical thinking and problem	solving, Creativity and imagination, Communication and collaboration.
Link to PCIs: ESD: Environmental education; care for environment; managing waste responsibly, Life skills: Effective communication		Link to Values: Responsibility and unity; learners are guided to manage waste
Links to other learning activity areas: Hygiene and Nutrition, Movement and creative activities in creating messages for waste management.		Suggested Community Service Learning activity: involving parents in waste management projects.
Suggested non formal activity to su application: show casing waste man		Suggested Assessment: written, oral questions, project work



Suggested Assessment Rubric

Sub-strand	Exceeds expectations	Meets expectation	Approaches expectation	Below expectation
Disposing wastes in the	Consistently and correctly	Correctly states ways	Sometimes states ways,	Rarely states ways,
community	states ways, participates and	participates and manages	participates and manages	participates or manages
	manages wastes responsibly	wastes responsibly to limit	wastes responsibly to limit	wastes responsibly to limit
	to limit risks to self and	risks to self and others.	risks to self and others.	risks to self and others.

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	others.			
Communicating messages on management of wastes	Consistently and correctly recognizes uses and communicates appropriate messages for waste management.	Correctly states ways participates and manages wastes responsibly to limit risks to self and others.	Sometimes states ways participates and manages wastes responsibly to limit risks to self and others.	Rarely states ways, participates or manages wastes responsibly to limit risks to self and others.
Engaging parents or guardians in waste management	Consistently and correctly identifies, involves and appreciates participation of parents or guardians in waste management.	Correctly identifies, involves and appreciates participation of parents or guardians in waste management.	Sometimes identifies, involves and appreciates participation of parents or guardians in waste management.	Rarely identifies, involves and appreciates participation of parents or guardians in waste management.

Strand	Sub strand	Specific learning outcomes	Suggested learning experiences	Key inquiry
				question(s)
3.0 Care for		By the end of the sub-strand,		How do trees protect
the	3.4 Caring for Soil	the learner should be able to:	 Learners to discuss the importance 	the soil?
environment			of trees in protecting soil	
	(10 Lessons)	a. State the importance of	Learners to use varied stimulus material	

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3.4.1 Planting trees to protect soil	planting trees b. Plant trees for soil protection c. Demonstrate willingness to plant trees to protect soil for environmental sustainability.	to observe how trees protect soil Learners to observe demonstration on planting tree seedling to protect (the seedlings to be planted where soil erosion is in progress) Learners to plant some tree seedlings to protect soil Learners to share with parents or	
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	T			 	
	Ecolebo	oks.com	guardians how planting tree seedlings protect the soil.		
	3.4.2. Improving soil	By the end of the sub-strand, the learner should be able to: a. Identify materials used to improve the soil b. Apply manure on a seedbed c. Apply mulch on a seedbed d. Develop interest in caring for the soil for using environmental sustainability.	 Learners observe stimulus material to soil (mulch from organic material, farm yard manure) Learners to use varied stimulus materials to observe how mulch and manure are identify materials used to improve the Learners to observe a demonstration on how to mulch and apply manure to a seedbed. Learners to mulch and apply manure to a seedbed used to care for soil. Learners to share with parents or guardians on the use of mulch and manure in caring for soil. 	What do we use to improve soil?	
			ation and collaboration, critical thinking and probler		
		ntal Education; care for the	Links to values: Respect learners share experiences on how to mulch		
	environment Citizenship: social cohesion, learners in groups use mulch		and add manure to care for soil: responsibility; learners participate in		
and manure to improve soil.		planting trees to care for soil.			
Links to other	Links to other learning activity areas (s): Mathematical Activities		Suggested community Service Learning activities: Learners share		
			with parents or guardians on the use of mulch and manure in caring for		
	n-formal activity to supposchool seed bed.	ort learning: mulch and apply	Suggested Assessment: project work ,written que	estions and observation	



Suggested Assessment Rubric

	Sub-strand	Exceeds expectations	Meets expectation	Approaches expectation	Below expectation
Ī	Planting trees to	Consistently and correctly	Correctly states importance,	Sometimes states importance,	Rarely states importance,
	protect soil	states importance, plants trees	plants trees and demonstrates	plants trees and demonstrates	plants trees or demonstrates

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	and demonstrates willingness	willingness to protect soil.	willingness to protect soil.	willingness to protect soil.
	to protect soil.			
Improving soil	Consistently and correctly	Correctly identifies, applies	Sometimes identifies, applies	Rarely identifies, applies
	identifies, applies mulch,	mulch, manure and develops	mulch, manure and develops	mulch, manure and develops
	manure and develops interest	interest in caring for the	interest in caring for the soil.	interest in caring for the
	in caring for the soil.	soil.		soil.



stimulus materials ways of protecting

Strand	Sub strand	Specific learning outcome	Suggested learning experiences	Key inquiry question(s)
ways of collecting rain water		By the end of the sub-strand, chools Net Kenyal Boahleto 5726 - 00 snkenya@gmail.com Website: www.s. a. Identify ways of collecting rain water in school and the community b. Collect rain water at school c. Appreciate the need of collecting rain water for domestic uses.	200, NAIROBLI choolsnetkenva:comain water Learners to observe stimulus materials showing ways of collecting rain water in school and community Learners to identify ways of collecting rain water in school and the community Learners to improvise means of collecting rain water for use Learners to inquire from parents or guardians on ways of collecting rain water and report back.	How could we collect rain water in school and community? 21
DOWNLOAD MORE	3.4.2 Caring for water reservoirs in the community	By the end of the sub-strand, the learner should be able to: a. Identify ways of protecting reservoirs b. Participate in protecting water reservoirs in the community c. Appreciate the need to care HIS ON ECOLOGICAL TO CARE for reservoirs in the	 Learners to observe appropriate water reservoirs (water tanks) Learners to identify ways of protecting water sources and the reservoirs (fencing around, covering, fetching through the tap, regular cleaning) 	How could we care for water reservoirs

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		participate in appropriate activities towards protection reservoirs Learners to sing songs or recite poems supporting caring for water reservoirs.		
Core-competence to be development: Critical thinking and problem solving (Links to PCI's: ESD: Environmental Education; caring for environment Citizenship: social cohesion, learners work in groups to identify ways of protecting water sources.		(protecting water sources and reservoirs), self-efficacy. Links to values: responsibility, respect; sing songs and recite poems related to water sources and reservoirs. Responsibility-learners participate in community activities to protect water		
Links to other learning activity areas (s): Hygiene and Nutrition on care of water.		Suggested Community Service Learning activities: Learners are guided to actively participate in community activities that involve protection of water sources and reservoirs.		
Learners are guid	formal activity to support learning: led by the teacher to actively participate in ities that involves caring for water reservoirs	Suggested Assessment: Written work, oral questions.		

Suggested Assessment Rubric

Sub-strand	Exceeds Expectation	Meets Expectation	Approaches Expectation	Below Expectation
Exploring ways of	Consistently and	Creatively identifies ways,	Sometimes identifies	Rarely identifies ways,
collecting rain water	creatively identifies ways,	collects and appreciates	ways, collects and	collects and appreciates
	collects and appreciates	need for collecting rain	appreciates need for	need for collecting rain
	need for collecting rain	water for domestic use.	collecting rain water	water for domestic use.
	water for domestic use.		for domestic use.	
Caring for water	Consistently and correctly	Correctly identifies ways,	Sometimes identifies	Rarely identifies ways,



reservoirs in the	identifies ways,	participates in caring and	ways, participates in	participates in caring and
community	participates in caring and	appreciates the need to	caring and appreciates the	appreciates the need to
	appreciates the need to	care for water reservoirs.	need to care for water	care for water reservoirs.
	care for water reservoirs.		reservoirs.	

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Strand	Sub strand	Specific learning outcome		Suggested learning experiences	Key inquiry question(s)
3.0 Care for the environment	3.5 Caring For Energy (10 Lessons) 3.5.1 Energy conservation campaigns in the community	By the end of the sub-stranthe learner should be able to a. State ways of promoting conservation in the common b. Participate in energy concampaigns in the common conservation in the common conservation in the common conservation in the common conservation.	energy munity aservation anity mote energy	 Learners to observe multimedia resources showing ways of promoting energy conservation (light and heat energy) Learners to reflect, think and share their ideas on promoting energy conservation in the community Learners to compose songs, poems, and create posters on energy conservation in the community. Then, pass the message in school and community events Learners to gather information about energy conservation in the community from parents or guardians and report back. 	How could we promote energy conservation?
Core Competences to be developed: Imagination and creativity and C Link to PCIs: ESD: Environmental Education: care for the environment Citizenship: social cohesion: learners in groups share ideas				a and collaboration, Critical thinking and problem es: Responsibility and unity: promoting energy co	
Life skills: effe	Life skills: effective communication.				
Links to other learning activity areas: Languages, Movement and Creative activities (music). Suggested non formal activity to support learning: share ideas			Suggested Community Service Learning activities: engaging the community in energy conservation campaign. Suggested Assessments: written questions, oral questions, observation		



on how during school assembly, in clubs and societies.

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Suggested Assessment Rubric

Exceeds expectations	Meets expectation	Approaches Expectation	Below expectation
Consistently and creatively	Creatively states ways, participates and	Sometimes states ways, participates	Rarely states ways, participates and
states ways, participates and	appreciates energy conservation	and appreciates energy conservation	appreciates energy conservation
appreciates energy	campaign.	campaign.	campaign.
conservation campaign.			

SUGGESTED LEARNING RESOURCES

The suggested list of learning resources is neither exhaustive nor prescriptive. It is important for the teacher to explore the wealth of learning resources, improvise or collect during a field study. The suggested resources include:

Local environment



- Real objects/Specimens/realia
- Maps
- Photographs, pictures paintings
- Flash cards and posters
- TV/video/films/slides/Internet sources



- Live Radio Broadcasts
- Vetted digital resources, educational computer games
- Approved textbooks and other printed resources
- Workbooks, Worksheets, Activity sheets
- Resource persons
- Weather instruments
- Artefacts
- Museum/historical sites
- Newspaper cuttings
- Magazines/journals
- Libraries
- Display boards