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 conditions	By the end of the sub-strand, the learner should be able to: a. Identify ways of keeping safe from unfavourable weather conditions b. Keep safe from unfavourable weather conditions c. Demonstrate knowledge of keeping safe from	 using age appropriate stimulus, learners could be guided to identify ways of keeping safe from unfavourable weather conditions (floods, 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 Learners to gather information from parents or guardians on how to keep safe during unfavourable weather conditions and report back. 	How could we keep safe from unfavourable weather conditions

Core Competences to be developed: Communication and collaboration,	<u> </u>
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.

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-stranthe 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?
Links to PCI's: I	ESD-Environmental Ed communication: learners	ical thinking and problem solucation: Environment and name methods of making		cation and collaboration, imagination and crees: Responsibility and teamwork as they may	
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			or guardians Suggested as	ommunity Service Learning activities: shaped on different ways of making water clean and sessment: Oral questions, observe as they water, project work on making water filter.	d safe for use.
and safe water for		,	1,000		

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

Core-competence to be development: Communication and collaboration, cr	C 1
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.

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	
resources	(10 Lessons)	a. Identify different types of plants	(edible/non-edible, thorny/non-thorny,	
	1.4.1 Categorizing plants.	b. Categorize plants in the immediate	poisonous/non-poisonous)	
		environment according to	 Learners to take photographs of 	
		specified features	different plants during the nature	
		c. Appreciate the rich diversity	walk	
		in plants.	 Using relevant stimulus materials, 	
			learners to be guided to categorize	
			plants according to specified features	

				 poisonous/non-poisonous) Learners to draw one type of plant and share their work with others. 	
	1.4.2Safety when handling plants	By the end of the sub-strand, the learner should be able to: a. Describe safe ways of handling plants b. Observe safety when handling plants in the immediate environment of the company of the plants in the mediate environment of the plants in the immediate environment of the plants in the plants in the immediate environment of the plants in the immediate environment of the plants in the plant	ng different g different onment plants	 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. 	How could we handle plants safely?
Core Competer	nces to be develop	oed: Critical thinking and problem s			
	Disaster risk reduct nvironmental Educ	tion; safety when handling eation	Link to valu	es: Responsibility, care for plants, respect the rich	n diversity in plants.
Links to other learning activity areas: Hygiene and Nutrition			00	ommunity Service Learning through application can be plant safety.	on: Learners listen
	-	o support learning: learners when handling plants to		ssessment: oral questions, written questions, e-ass	sessment or quiz.

Sub-strand	Exceeds expectations	Meets expectation	Approaches Expectation	Below expectation
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,	What are the uses of animals to people
Core Compo	<u> </u>	to learn, Critical thinking and pr	roblem solving, creativity and imagination, communi	cation
Link to PCI's: ESD: animal welfare Education: Environment and its resources. Life skills: Effective communication; learners state the importance of animals to humans.			Link to values: Responsibility, care, love: learners at the usefulness of animals to people.	ppreciate
Link to other learning activity areas: Religious Education: appreciating God's creation.			Suggested community service learning activity: F uses of different animals from parents or guardians.	inding out on the
	on formal activity to support learners for the other learners to appre		Suggested assessments Oral questions, observe as they work in groups, written questions.	

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.

Strand	trand Sub strand Specific learning outcomes Suggested learning experiences		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: 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 the house in case of a fire outbreak.	 Learners to identify materials that could start a fire at home (match box, petrol, kerosene, 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. Learners to visit a fire station for more information on fires and safety procedures. 	1. What are the dangers of heat energy? 2. Which materials cause fire? 3. How should we safely move away in case of a fire outbreak in the

	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	ion, learning to learn; critical thinking and problem solving.	
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	Suggested assessment: observation, oral questions, and written exercises.	
application : Sharing the DOs and DONT's during fire outbreak in		
a school assembly.		

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.	

Strand	Sub-strand	Specific learning outcomes	Suggested learning experiences	Key inquiry question(s)
2.0 Social Environment	2.1 Harmonious Living in the Community (25 Lessons) 2.1.1 Sanitation in the community	By the end of the sub-strand, the learner should be able to: 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 visit a market place, explore the sanitation 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 	How could we keep our market place clean?
	2.2 Keeping safe in the community 2.2.1 Responding to strangers	By the end of the sub-strand, the learner should be able to: 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 	How could we respond appropriately to strangers?

2.2.2Safe and dangerous places in the community	By the end of the sub-strand, the learner should be able to: 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 crossing, stop sign, traffic lights) 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. 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?
2.4 Environmental and cultural events in the community	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

b. Participate in cultural events that promote environmental and social wellbeing in the community c. Develop interest in environmental and cultural events that promote social wellbeing in the community. Core Competences to be developed: Creativity and imagination, commor guardians	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. munication and collaboration, learning to learn: gathering information from parents	
Link to PCIs: Citizenship: social cohesion; learners discuss roles	Link to values: Responsibility, peace, social justice.	
of community in caring for environmental resources		
ESD : Environmental Education, harmonious 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 during community		

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.			
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.

	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	Innovatively and actively	Actively identifies and participates	Sometimes identifies and	Rarely identifies or participates
cultural events in the	identifies and participates	in environmental and cultural	participates in	in environmental and cultural
community	in environmental and	events that promote social	environmental and	events that promote social
	cultural events that	wellbeing in the community.	cultural events that	wellbeing in the community.
	promote social wellbeing		promote social wellbeing	
	in the community.		in the community.	

Strand	Sub strand	Specific learning outcome	Suggested learning experiences	Key inquiry question(s)
environment	2.2 Enterprise projects (25 Lessons) 2.2.1 Waste management for income generation project at school.	 a. Identify ways of using waste responsibly to generate income b. Determine suitable waste management 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. 	 Learners to identify ways of using waste to generate income (Collection, sorting, Reducing Reusing, recycling) Learners to observe varied stimulus materials 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 	What activities could learners undertake to generate income from waste management

	 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: Critical thinking and problem solving; reusing to build consensus.	ng and recycling wastes. Communication and collaboration: discussions	
Link to PCI's: ESD: Environmental Education; social	Link to values: Responsibility; learners find out from parents	
environments Financial literacy: Enterprise projects	income generating activities	
Citizenship: Social cohesion: learners share 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		

Exceeds expectations	Meets expectation	Approaches	Below expectation	
		expectation		
Consistently and creatively identify and	Creatively identify and determine	Sometimes identify	y 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	e and	income and participate actively
in the waste management project.	waste management project.	participate actively	in the waste	in the waste management project
		management proje	ct.	

Sub-strand	Specific learning outc	omes	Suggested learning experiences	Key inquiry question(s)
3.1Caring for Plants (5 Lessons) 3.1.1 Communicating plant protection messages in the community.	By the end of the sub- the learner should be a. Give ways of protection in the community b. Create persuasive in plants protection in community c. Communicate mess protect plants in the	estrand, able to: cting plants nessages on the sages 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?
E ESD: Environmental Education; caring for plants Plant protection. Life skills: coon messages and peer assessment learning activity areas: Landa reciting poems, singing songs	on: Care for operation: creating nt of messages. guage, Music and s and creating	Link to Value poems, song Suggested Complant protect	les: Responsibility learners convey plant ps and posters Community Service Learning activities: conveying the community in various	communicating fora.
	3.1Caring for Plants (5 Lessons) 3.1.1 Communicating plant protection messages in the community. ences to be developed: Community ESD: Environmental Education; caring for plants Plant protection. Life skills: coon messages and peer assessment learning activity areas: Landar reciting poems, singing songs	3.1 Caring for Plants (5 Lessons) 3.1.1 Communicating plant protection messages in the community. a. Give ways of protein the community b. Create persuasive many plants protection in community c. Communicate mess protect plants in the d. Appreciate plant protection in the community. a. Give ways of protein the community b. Create persuasive many plants protection in community c. Communicate mess protect plants in the d. Appreciate plant protection in the community.	3.1 Caring for Plants (5 Lessons) 3.1.1 Communicating plant protection messages in the community. a. Give ways of protecting plants in the community b. Create persuasive messages on plants protection in the community c. Communicate messages that protect plants in the community d. Appreciate plant protection in the community. ences to be developed: Communication and collaboration, Imagination the community. ESD: Environmental Education: Care for plants or the community of the community. ESD: Environmental Education: Care for plants or the community of the community. ESD: Environmental Education: Care for plants or the community of the community. ESD: Environmental Education: Care for plants or the community of the community. ESD: Environmental Education: Care for plants or the community of the community. ESD: Environmental Education: Care for plants or the community of the community. ESD: Environmental Education: Care for plants or the community of the community. ESD: Environmental Education: Care for plants or the community of the community.	3.1.1 Communicating plant protection messages in the community. a. Give ways of protecting plants in the community b. Create persuasive messages on plants protection in the community c. Communicate messages that protect plants in the community d. Appreciate plant protection in the community d. Appreciate plant protection in the community e. Communicating protection in the community d. Appreciate plant protection in the community d. Earners to design plant protection messages using print and electronic media. • Learners to design plant protection messages using print and electronic media. • Learners to display and peer asses the plant protection messages on plant protection messages. • Learners to recite or sing songs on plant protection messages to the community through print and electronic media. • ESD: Environmental Education: Care for int; caring for plants Pant protection. Life skills: cooperation: creating on messages and peer assessment of messages. • Learners to convey the plant protection messages to the community through print and electronic media. • Link to Values: Responsibility learners convey plant protection. Life skills: cooperation: creating on messages and peer assessment of messages. • Learners to explore and identify areas where plants have been destroyed in community • Learners to design plant protection messages. • Learners to recite or sing songs on plant protection messages to the community through print and electronic media.

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 is	C 1	
Links to PCI's: ESD: Animal Welfare Education, caring for animals Life skills: Effective communication; learners identify signs of distress in animals			Links to values: responsibility and unity in groups learners	work.
Links to other learning activity areas (s): Religious Studies: appreciating animals as God's creation		· · · · ·	Suggested Community Service Learning activities: field learn about animal care.	visit to a farm to
Suggested non on animal right	•	o support learning: Debate	Suggested Assessment: Oral question and written work.	

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 ewastes) 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 commuc. Communicate messages on management of wastes in the community.	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 p or 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
		solving, Creativity and imagination, Communication and collaboration.
Link to PCIs: ESD: Environmental environment; managing waste resport communication		Link to Values: Responsibility and unity; learners are guided to manage waste
Links to other learning activity are Movement and creative activities in a 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

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.

	others.			
Communicating messages on management of wastes	Consistently and correctly recognizes uses and	Correctly states ways participates and manages	Sometimes states ways participates and manages	Rarely states ways, participates or manages
on management of wastes	communicates appropriate messages for waste	wastes responsibly to limit risks to self and others.	wastes responsibly to limit risks to self and others.	wastes responsibly to limit risks to self and others.
	management.			
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 environment	3.4 Caring for Soil (10 Lessons) 3.4.1 Planting trees to protect soil	 the learner should be able to: a. State the importance of planting trees b. Plant trees for soil protection c. Demonstrate willingness to plant trees to protect soil for environmental sustainability. 	 Learners to discuss the importance of trees in protecting soil Learners to use varied stimulus material 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 	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 identify materials used to improve the soil (mulch from organic material, farm yard manure) Learners to use varied stimulus materials to observe how mulch and manure are used to care for soil. Learners to observe a demonstration on how to mulch and apply manure to a seedbed. 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?			
Core-competence to be development: Creativity and imagination, Communication and collaboration, critical thinking and problem solving.						
Links to PCI's: ESD-Environmental Education; care for the environment Citizenship: social cohesion, learners in groups use mulch and manure to improve soil.		Links to values: Respect learners share experiences on how to mulch and add manure to care for soil: responsibility; learners participate in planting trees to care for soil.				
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				
Suggested non-formal activity to supmanure to the school seed bed.	port learning: mulch and apply	Suggested Assessment: project work ,written questions and observation				

Sub-strand	Exceeds expectations	Meets expectation	Approaches expectation	Below expectation
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

	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.

Strand	Sub strand	Specific learning outcome	Suggested learning experiences	Key inquiry question(s)
3.0 Caring for	3.4 Caring for	By the end of the sub-strand,		How could we collect
the	water	the learner should be able to:	 Learners to share experiences on ways 	rain water in school
environment	3.4.1 Exploring ways of collecting rain water (10 Lessons)	 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. 	 of collecting rain 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. 	and community?
	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 for reservoirs in the	 Learners to observe appropriate stimulus materials ways of protecting 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

		participate in appropriate activities towards protection reservoirs • Learners to sing songs or recite poems supporting caring for water reservoirs.
Links to PC environment Cit	ce to be development: Critical thinking and profess: ESD: Environmental Education; car izenship: social cohesion, learners work in g protecting water sources.	
Links to other learning activity areas (s): Hygiene and Nutrition on care of water.		
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.

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.	

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-strand, the learner should be able to: a. State ways of promoting energy conservation in the community b. Participate in energy conservation campaigns in the community c. Appreciate the need promote energy conservation in the community.		 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?
Link to PCIs:	ESD: Environmental l			n and collaboration, Critical thinking and problem les: Responsibility and unity: promoting energy c	
the environment Citizenship: social cohesion: learners in groups share ideas Life skills: effective communication.					
Links to other learning activity areas: Languages, Movement and Creative activities (music).			Suggested Community Service Learning activities: engaging the community in energy conservation campaign.		
Suggested non formal activity to support learning: share ideas on how during school assembly, in clubs and societies.			Suggested A	ssessments: written questions, oral questions, ob	servation

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