INTEGRATED PRIMARY SCIENCE ABRIDGED CURRICULUM P.4 INTEGRATED SCIENCE ABRIDGED CURRICULUM TERM ONE

THEME: THE WORLD OF LIVING THINGS

TOPIC 1: PLANT LIFE (20 PERIODS)

Overview

This is topic 1, term 1, in the standard P.4 curriculum. It provides learners with an understanding of different plants in the environment and their habitats, identifying different parts of a flowering plant, functions of different parts such as leaves, roots, flowers, stems and seeds, caring for different plants and garden tools.

COMPETENCES	CONTENT	SUGGESTED ACTIVITIES
Names types of	Living things	Using a field visit, the leaners
living things	-Types of living things	identify the different plants in
• Explains the	-characteristics	the environment
characteristics	• Plants and their habitats	• Collecting samples of plants
of living things	• Examples of plants; maize,	from preserving in the class
 Names/signs 	yams, cactus, sisal	Grouping plants according to
plants	 Characteristics of plants; they; 	where they grow e.g. in water,
 Identifies 	grow, eat, reproduce, breath	in dry areas, in swamps, on
characteristics	 Plant habitats; garden, water, 	rocks etc
of plants	wetlands, dry areas, rocky	Observing and
 Describes 	places	naming/signing the different
habitats of	 Parts of the flowering plant 	parts of a plant in their local
plants	• (Roots, stems, leaves,	language and in English
• Classifies	flowers)	• Explaining the functions of
plants	• Functions of parts of a	the different parts of the plant
• Identifies the	flowering plant e.g. roots	to the plant
external parts	(holds plants firmly into the	• Matching names with
of a flowering	ground, absorbs water and	functions for the different
plant	mineral salts)	parts of a flowering plant
• Labels parts of	• Stem; (holds branches, holds	Demonstrating the usefulness
a flowering	flowers, caries food to all	of plants to humans e.g.
plant	parts of the plant)	preparing flower bouquets,
		preparing leaves as food,

COMPETENCES	CONTENT	SUGGESTED ACTIVITIES
• Discusses the	• Seeds	making medicinal extracts
uses of a plant	Seed structure	from roots etc.
• Discusses the	Uses of plants to people	• Demonstrates practices in
function of the	• Food	plant propagation either by the
different parts	Medicinal	use of seeds or other
of the	Sold for money	vegetative parts
flowering plant	Construction	Carrying out an experiment to
• Describes the	• Firewood	find out the conditions for
structure of a	• Uses of the different parts of a	germination.
seed	flowering plant to us e.g. food,	Participating in a debate about
• Demonstrates	medicine, fuel, decoration,	the usefulness and dangers of
how to plant	money	plants to man and the
• Describing the	Dangers of some plants	environment. a topic like "The
process of	• Experiment; observing and	environment is nothing
planting	recording the growth of a	without plants", "Plants are a
• Investigates the	plant.	problem in the environment".
conditions	Crop growing practices	Demonstrating the use of the
necessary for	• Clearing land (slashing,	different garden tool used at
germination	digging, ploughing)	home.
• Explains the	• Planting (seed	Demonstrating how to care for
uses of the	selection/seedlings, row	garden tools.
different parts	planting, broadcasting,	Establishing mini gardens and
of a flowering	transplanting)	backyard gardens on the
plant to people	• Caring for crops (weeding,	schools compound to learn
• Discusses the	pruning – root, branch;	about crop growing practices.
dangers of	thinning; mulching; spraying;	
plants in the	watering; drying; storing;	
environment	harvesting; marketing; staking	
Naming	Crop rotation	
garden tools	• Garden tools e.g. hoe, slasher,	
Explaining the uses	panga	
of garden tools	• Conditions necessary for	
	germination	
L	1	1

COMPETENCES	CONTENT	SUGGESTED ACTIVITIES
	• Seed germination project	

- 1. Assess learners' ability to demonstrate practices of caring for plants in the environment.
- 2. Assess as learners' ability to investigate the conditions for germination.
- 3. Assess learners' competence of using and caring for different garden tools.

THEME: THE WORLD OF LIVING THINGS

TOPIC 2: ANIMALS LIFE (25 PERIODS)

Overview

This topic is created from Theme 5, term 2 of P.3 thematic curriculum. Animals are components of the environment. Some animals are kept at home while others live in the bush. Some walk, others crawl. Others swim while others fly. Some eat grass while others eat flesh. However, each animal is important in the environment, and we need to protect and take good care of them. This topic aims at making learners identify the different animals in their environment, their uses and how to care for them.

COMPETENCES	CONTENT	SUGGESTED
		ACTIVITIES
• Explains	• Characteristics of animals e.g. the	• Through nature walk,
characteristics	number of legs, type of feet, type	learners identify and
of animals	of skin etc.	group (where they live,
(including	classes of animals	whether they are wild or
birds and	-In air e.g. birds, bats	domestic etc) different
insects	-In water e.g. fish	animals in the
• Identifies	-On land e.g. cows	environment.
examples of	Types of animals	• Using whole class
animals and	-Domestic and wild animals	approach, learners
their habitats.	• Examples of domestic animals e.g.	explain the usefulness of
• Classifies	cows, goats, rabbits	the different animals in
animals	• Examples of wild animals e.g.	the environment.
(including	elephant, zebra, lion, hyena,	• Individually learners
birds and	giraffe	demonstrate ways of
insects)	Homes (habitats) of domestic	caring for animals in the
	animals e.g. pig (sty); cattle	environment.

COMPETENCES	CONTENT	SUGGESTED
		ACTIVITIES
Identifies ways	(shed/kraal); dogs	
of caring for	(kennels/dens/homes)	
animals	• Wild animals; forest, burrow	
• Demonstrates	(underground), nest etc.	
ways of caring	Birds and insects	
for birds and	• Domestic birds e.g. hen, turkey,	
other animals	duck, pigeon.	
	• Wild birds e.g. crow, kite, weaver	
	bird, eagle, sparrow, crested crane	
	(as a national emblem)	
	• Bat (is not a bird); fly, has no	
	feathers, does not lay eggs	
	• Characteristics of birds; lay eggs,	
	have wings, and feathers, some fly	
	Habitats e.g. nests, burrows	
	• Insects e.g. white ants, black ant,	
	termite, bee, wasp, butterfly	
	Characteristics of insects e.g.	
	-some move in groups (e.g. bees,	
	black ants);	
	-Some have wings e.g. locusts,	
	butterfly; Some sting e.g. bees,	
	wasps;	
	-Some bite e.g. black ants;	
	-Some do not wings e.g. termites,	
	ants	
	-they have six legs	
	care for insects and birds and	
	other animals	
	-caring for bees	
	provide a hive; plant flowers;	
	provide water, provide something	
	sweet	
	-Some bite e.g. black ants; -Some do not wings e.g. termites, ants -they have six legs care for insects and birds and other animals -caring for bees provide a hive; plant flowers; provide water, provide something	

COMPETENCES	CONTENT	SUGGESTED
		ACTIVITIES
	-caring for domestic birds and	
	other animals	
	protecting nests	
	-protecting their eggs	
	treating birds	
	-preparing birds habitats	
	-protecting birds	
	- keeping bird records	
	- being kind to birds;	
	-participating in grooming;	
	-feeding birds; cleaning animal	
	habitats; preparing animal	
	habitats; identifying signs and	
	symptoms of ill health; being kind	
	to animals; keeping animal records	
	• care for wild birds and other	
	animals	
	-protection from hunters-	
	- discourage bush burning	
	-avoid destroying forests and	
	swamps	
	-provide food, protection and	
	medication for animals in	
	protected areas like zoos	
	- avoid poaching and unnecessary	
	killings (hunting)	

- 1. Assess learners' ability to correctly group animals using identified criteria.
- 2. Assess learners' competences of demonstrating ways of caring for animals in the environment.
- 3. Assess individual learners' competence to identify different types of animals.

THEME: THE ENVIRONMENT

TOPIC 3: MANAGING RESOURCES IN OUR SUB COUNTY / DIVISION (20 PERIODS)

Overview

This topic is created from Theme 7, term 3 of the standard P.3 curriculum. This content was not covered due to COVID 19 lockdown. This topic will equip learners with knowledge on how to utilize, manage and conserve resources in the environment.

Resources need to be used in a sustainable way for our own benefit and that of the future generation. This topic intends to increase the awareness of the learners and develop their skills in sustainable use of resources. There is need for the teacher to organise more remedial lessons to enhance understanding and mastery of this content by the learners.

COMPETENCES	CONTENT	SUGGESTED
		ACTIVITIES
Names/signs basic	Saving resources	By brainstorming
resources	Concept of resources	learners, identify
• Explains ways of	• Basic resources i.e. water, time,	things that they
saving resources	money, food,	need daily to
• Discusses why we	• Fuel e.g. firewood, charcoal, gas,	survive.
save	petrol, diesel	By working in
• Explains how we	Meaning of saving	groups, learners
keep and use	• Ways of saving – in the bank, in safe	cost the materials
records	boxes, proper use of materials,	that they need
Names/signs things	repairing, recycling, planting,	daily and
we spend on	preparing enough food, switching off	comparing them
• Discusses ways of	power when not in use, proper	to the earnings of
spending wisely	budgeting	their guardians.
• Identifies possible	• Why we save – meeting needs,	• Individually,
activities that	improving standards, avoiding	learners
generate	wastage, for future use	demonstrate
knowledge, skills,	Keeping records on e.g. things used at	record keeping of
and money	home, school daily etc.	what they use
• Explains	Spending resources	daily for one
importance of		week.
projects		

COMPETENCES	CONTENT	SUGGESTED
		ACTIVITIES
 Demonstrates 	• Meaning of spending wisely e.g.	• Using whole
establishing and	budgeting, negotiating, prioritizing,	class approach,
managing projects	comparing quality, comparing prices	learners discuss
	Keeping records	ways of saving
	• Projects	the resources that
	• Projects – activities carried out in order	they use daily
	to get knowledge, skills or money	like (firewood,
	• Examples of projects e.g. bee keeping,	charcoal, food,
	tree planting, poultry keeping, brick	fuel, electricity,
	making	water, cooking
	• Preparing for a project – money, time,	gas, Clothes,
	space, knowledge / skills	books, money
	• Managing a project – recording,	etc.
	recording, commitment, checking,	• Establishing a
	maintenance	sample project in
		the school and
		demonstrating
		record keeping,
		saving etc.

- 1. Assess learners' competence to keep records of their daily activities and practices for one week.
- 2. Using written exercises, assess learners' competence to explain ways of saving resources.
- 3. Using whole group approach assess learners' competence to describe possible activities of saving resources in the environment.

THEME: MATTER AND ENERGY

TOPIC 4: BASIC TECHNOLOGY IN OUR SUB COUNTY / DIVISION (20 PERIODS)

Overview

This is theme 1 term three P.3 in the standard curriculum. It provides learners with an understanding of the different things that exist in their environment, their sources and uses. The topic also enlightens them about the usefulness and the challenges in using these materials. This helps the leaners to take appropriate care for these made items.

COMPETENCES	CONTENT	SUGGESTED ACTIVITIES
Names/signs	The concept of technology	Through nature walk learners
artificial and	Natural and artificial	collect different materials in
natural materials	materials	the environment.
• Describes	Natural materials e.g. banana	• Using small groups, leaners
characteristics of	fibres, palm leaves	classify the collected
natural and	• Artificial materials e.g. wire,	materials as artificial and
artificial	plastics, straws,	natural materials
materials	• Characteristics of materials	• Using pair work, learners
according to	in terms of; texture, size,	compare different natural and
colour, size,	colour, weight (heavy/light)	artificial materials according
weight, texture	Collecting and displaying	to durability, difficulty in
• Identifies sources	materials for use.	getting, ease of use, number
of natural	• Processing and making	of uses etc.
materials	things from natural materials	Making different things from
• Compares	e.g. food, fibre, leaves	natural and artificial
natural and	• Source e.g. swamps,	materials e.g. decorations,
artificial	plantation, bush	play materials, containers,
materials	• Products e.g. mats, ropes,	etc.
Describes how to	juice, salads	Demonstrating how to use
make different	• Purpose e.g. selling, eating,	the materials made above
thing from	playing, learning	
natural and	Practical on making some	
artificial	materials e.g.	
materials.	Ropes from sisal	
Discusses uses of	Balls and mats from banana	
materials	fibres	
• Identifies sources	Models from clay	
of artificial	Mats from papyrus	
materials	• Juice from oranges, lemon,	
• Classifies	pineapples, passion fruit etc.	
materials as	Making things from artificial	
natural and	materials	
artificial	Source e.g., recycling	
	- Source e.g., recycling	

COMPETENCES	CONTENT	SUGGESTED ACTIVITIES
	• Product e.g., toy cars, toy	
	bicycles, flowers, candles,	
	bags	
	• Use e.g., for children's play,	
	for selling, for decoration, for	
	wearing / ornaments	
	Practical on making some	
	materials e.g., toy cars, toy	
	bicycles	

- 1. Assess learners' ability to identify natural and artificial resources in the environment.
- 2. Using written work, assess learners' ability to describe uses of natural/artificial materials.
- 3. Using project work, assess learners' competence to develop materials from natural/artificial materials.

THEME: MATTER AND ENERGY

TOPIC 5: ENERGY IN OUR SUB COUNTY / DIVISION (18 PERIODS)

Overview

This is the topic is derived from Theme 12, term 3 in the standard thematic P.3 curriculum. It is intended to develop appreciation and in-depth understanding of the learners on the different energy resources in their environment with the aim of enabling them to make good use of the available resources. Energy is a costly resource and a major source of environmental degradation. Therefore, learners need to understand where they get their energy from and how to reduce wastage of and environmental effects of energy use.

COMPETENCES	CONTENT	SUGGESTED ACTIVITIES
• Explains the	 Meaning of energy 	• Identifying the common
meaning of energy.	• sources of energy.	sources of energy in their
• Identifies different	- natural sources e.g. wind	community.
types of energy.	(for sailing boats, driving,	Classifying energy sources
• Describes the	windmill), water	as artificial and natural
different sources of		
energy.		

air moves objects. Discusses ways of saving energy. Discusses the importance of saving energy, dangers of energy and ways of avoiding these dangers. Discusses the importance of saving energy and ways of avoiding these dangers. Discusses the importance of saving energy and ways of avoiding these dangers. About the importance of saving energy and ways of avoiding these dangers. About the importance of saving energy and ways of avoiding these dangers. Discusses ways of the importance of saving energy. Discusses the importance of saving energy. Discusses the importance of saving energy. Discusses the importance of saving energy. Left the importance of saving energy. Discusses ways of the importance of saving energy. Left the importance of saving energy. Discusses the importance of saving energy. Left the importance of saving energy. Discusses the importance of saving energy. Discusses: Discusses the importance of saving energy. Discusses: Discusses	COMPETENCES	CONTENT	SUGGESTED ACTIVITIES
- minimizing costs - avoid waste • Dangers of energy and ways of avoiding them - Live wire - Fire	 Demonstrates that air moves objects. Discusses ways of saving energy. Discusses the importance of saving energy, dangers of energy and ways of avoiding these 	- artificial sources e.g. fuel (diesel, petrol, wood, charcoal, paraffin etc.) Their uses; - Electricity (in home, battery) - Uses: diesel / petrol – in cars and generators - Paraffin – lighting and cooking, in refrigerators - Wood / charcoal – cooking - Hydroelectricity – factories, cars, lighting, homes/ hospitals • Ways of saving energy - Using energy saving stoves and bulbs Switching off electricity and appliances when not in use Putting out fire after use - Planting trees - Following instructions on proper use of energy etc • Importance of saving energy - minimizing costs - avoid waste • Dangers of energy and ways of avoiding them - Live wire	Experiments to show that air moves things e.g. kites, propellers. • Demonstrating practices of saving energy resources. • Making functional models of toys and other play materials that use different energy resources to function.

COMPETENCES	CONTENT	SUGGESTED ACTIVITIES
	- Storm	
	- Drought	
	- accidents	
	Ways of avoiding dangers	
	-planting trees to act as	
	wind breaks	
	- avoid playing with fire	
	-Pushing nails into sockets	
	-playing with electric wires	
	-using fire extinguishers	
	-making posters with	
	warning messages or safety	
	symbols.	

- 1. Individually, assess learners' competence to describe the different ways of saving energy resources.
- 2. Using written test, assess learners' competence to name and categorize energy resources

TERM TWO

THEME: SCIENCE IN HUMAN ACTIVITIES AND OCCUPATIONS

TOPIC 6: GROWING CROPS (12 PERIODS)

Overview

This is topic 2, term 1 in the standard P.4 curriculum. The topic is intended to develop leaner's appreciation for and competences in crop growing. The learners are exposed to appropriate practices in crop growing. The teacher is urged to adopt a practical approach to the teaching of this lesson. Learners need to be provided with small plots of land where they demonstrate proper practices in crop growing. Co-curricular activities like the Young farmers club can help reinforce the competences developed in the classroom.

COMPETENCES	CONTENT	SUGGESTED ACTIVITIES
The learner.	1. Common crops	• Using excursion,
• Identifies common	(Maize, sorghum, peas,	identifying the common
crops in the	ground nuts, bananas,	crops grown in their
community	beans, cassava, coffee, tea,	community.
	cotton)	
	2. Groups of crops	

COMPETENCES	CONTENT	SUGGESTED ACTIVITIES
Groups the common	- Perennial crops: coffee, tea,	Making a visit to a nearby
crops as perennials	bananas.	market to identify the
and annuals	- Annual crops: maize,	common crops sold in the
• Draws and labels	sorghum, peas, ground nuts,	market (distinguishing
annual crops	cassava, beans, cotton.	between those grown
• Identifies common	3. Garden tools, equipment,	locally and those imported
tools, equipment and	and materials.	from other parts of the
materials used in	(hoes, spade, rake,	country).
growing annual crops	wheelbarrow, pegs, shovel,	Demonstrating how to use
• Describes the uses of	pickaxe, hand fork, pangas,	the garden tools that are
common tools,	watering can, string, garden	commonly used in the
equipment and	fork, trowel, secateurs,	community.
materials	pruner, axe, pail, jerry can,	• Demonstrating ways of
• Identifies and	sprayer and knives).	caring for garden tools
describes crop	4. Crop growing practices	• Setting up a project of
growing practices	(Land clearing, ploughing,	growing vegetables in the
Demonstrates some of	seed selection, planting, gap	school garden.
the crop growing	filling, weeding, thinning,	Demonstrating correct crop
practices	mulching, manuring,	growing practices on the
• Identifies some	drying, transplanting,	demonstration farms.
common signs of	pruning, spraying, record	• Demonstrating correct
disease damage in	keeping, harvesting,	practices of pest control.
crops	storing, watering).	
• Describes some signs	5. Common signs of pest and	
of pests and diseases	disease damage in crops	
and pest damage in	- Holes in leaves, fruits	
crops and ways of	and stems of crops	
controlling them	- Spots on leaves, fruits,	
	seeds, roots and stems of	
	crops	
	- Change of colour in	
	leaves, fruits and stems	
	- Rotten plant parts	
	- Deformed plant parts	

COMPETENCES	CONTENT	SUGGESTED ACTIVITIES
	6. Ways of controlling pests	
	and diseases in the garden	
	(spraying, cleaning seeds,	
	planting clean seeds,	
	uprooting diseased crops,	
	timely weeding, early	
	planting, use of scarecrows)	

- 1. Assess individual learner's ability to demonstrate practices in crop growing.
- 2. In small groups, assess learners' competences in setting up vegetable gardens within the school this can be using urban farming strategies.

THEME: THE ENVIRONMENT

TOPIC 7: WEATHER IN OUR SUB COUNTY / DIVISION (20 PERIODS)

Overview

This is topic was in term one, P.4 standard curriculum and has been retained the content from theme 4 of P.3 term one has been integrated in it. Therefore, there is need for learners to learn about weather, weather changes, and activities during particular weather conditions, weather forecast, weather instruments, rain formation, uses and dangers of the elements of weather etc.

COMPETENCES	CONTENT	SUGGESTED ACTIVITIES
Describes weather	What weather and seasons	Observing the skies of the
and seasons	are	day and describing what
• Elements of	Changes in the weather	they see in the skies
weather (rainfall,	(sunshine, clouds, rain,	Referring to their memory
wind, cloud,	wind, temperature)	to state other conditions of
sunshine)	Air and the sun	the skies on other days
• Describes the	• Air; concept of air and	(weather conditions).
changes in the	properties of air – weight,	• Identifying topics and
weather through	moves things (force),	conducting debates on the
the year	occupies space, can be felt	different elements of
		weather e.g. "Rain is life",

COMPETENCES	CONTENT	SUGGESTED ACTIVITIES
Describes weather	• Importance of air; for	"wind is a threat to the
patterns and	burning, for breathing	environment"
climate changes in	Dangers of strong wind	Carrying out an experiment
different parts o	• Experiments e.g. how air	to show that air is needed for
the country	occupies space, properties	burning – closing a burning
• Discusses the	of air, air is needed for	candle in a glass jar.
importance o	burning (oxygen)	Observing clouds and
weather	• The sun: importance of the	describing their
• Explains the	sun – dries things, gives	characteristics
dangers of weather	light, warmth, helps living	Carrying out and observing
changes	things to grow	the demonstration of the
• Uses	• Dangers of the sun; dries up	rain cycle
thermometer to	water, destroys crops	• Establishing projects in the
measure	• Experiments e.g., why	school to harvest and
temperature	plants need light	properly manage water
• Demonstrates that	• Water	Making and using a weather
air is needed for	• How rain is formed (the	chart
burning	water cycle) – water cycle;	Recording daily weather
Names the types of	formation of rain drops	over a period like one month
clouds	(evaporation and	and using this information
• Describes types o	condensation); types of	to describe the weather,
clouds	clouds - how clouds affect	economic activities etc., for
• Describes	the environment; how	that month.
weather chart	clouds bring changes in	
Describes the rain	temperature.	
cycle	Monitoring weather change	
Makes accurate	• Process of water cycle;	
measurements o	measuring rainfall	
rainfall	• How rain affects the	
Naming sources o	environment; importance of	
water	rain on soil, animals;	
• Discusses	dangers of rain on soil,	
importance of	animals, plants	
water sources	Managing water	
	1	

COMPETENCES	CONTENT	SUGGESTED ACTIVITIES
• Discusses ways of	• Importance of water;	
proper	sources of water; water	
management of	harvesting; maintenance of	
water	water sources.	

- 1. Assess individual learner's ability to record weather of their homes over a period of one month. They should use this information to identify the best economic activities for that month.
- 2. Assess learners improvise instruments for determining the elements of weather e.g. a shadow clock, a wind shock, wind vane etc.
- 3. Assess as learners design and carry out projects in conservation and management of water resources in the school

THEME: HUMAN HEALTH

TOPIC 8: PERSONAL HYGIENE (10 PERIODS)

Overview

This is a term one P.4 topic in the standard curriculum. It provides learners with an understanding of how to keep their bodies clean, why they keep their bodies clean, things they need to clean the body, clothes and beddings. At this level you need to encourage the learners to continue to develop desirable habits for good personal hygiene.

COMPETENCES	CONTENT	SUGGESTED ACTIVITIES
The learner;	1. Importance of	• Learners share their experiences
• explain why we need	keeping our bodies	on how they keep their bodies
to keep clean.	clean	clean.
• Identifies ways of	(Remove dirt, remove	• Learners brainstorm on the
keeping clean.	germs, avoid bad	importance of keeping the body
Demonstrates keeping	smell, keep healthy,	clean.
clean.	keep smart)	• Learners demonstrates the best
Discusses what can go	2. Ways of keeping	practices for keeping the body
wrong if we do not	clean	clean with the guidance of their
keep clean.	3. Things used for	teachers.
	keeping our body	• Using whole class approach,
	clean	learners brainstorm about the

COMPETENCES	CONTENT	SUGGESTED ACTIVITIES			
	4. Keeping bedding and	materials for keeping the body			
	clothing clean	clean and ways of keeping them			
		clean and safe.			

- 1. Orally/ using written test, assess individual competence on explaining the importance of keeping clean.
- 2. Using a skit, assess learner's ability to demonstrate correct practices in keeping their bodies clean.
- 3. Assess individual learners' ability to identify materials used in keeping the body clean.

THEME: HUMAN HEALTH

TOPIC 9: OUR FOOD (12 PERIODS)

Overview

This is topic 1, term 2, in the P.4 standard curriculum. Food is important for the growth and development of living things. We need food with various food values. We need to feed on a variety of foods. This topic provides learners with an understanding of classes of food, food values, uses of food in the body, deficiency diseases, and preparing different dishes, how food gets contaminated and how to prevent food from contamination.

COMPETENCES	COMPENIE	
COMPETENCES	CONTENT	SUGGESTED ACTIVITIES
The learner;	1. Classes of food-3G's	• Learners collect and bring
• Identifies classes	(Go food, Glow food, Grow	samples of the foods they eat to
of food and their	food)	school. These can be used and
values.	2. Food values	displayed in the nature section.
Describes the uses	(Carbohydrates, Vitamins	• Grouping foods into the
of food values to	and mineral salts, Proteins)	different classes of foods.
the body.	3. Uses of food values to the	• Making a guided tour of the
• Describes how	body	nearest market to collect
food gets	(growth, energy, protection)	information on the foods sold in
contaminated	4. Deficiency diseases	the markets.
• Practices proper	(Night blindness,	• In small groups, learners
handling of food.	Kwashiorkor, Marasmus,	discuss how food gets
	Goitre, Beriberi, Scurvy,	contaminated and possible
	Rickets)	ways of preventing it.

CO	OMPETENCES			ONTENT	TENT			IGGES I	TED AC	ΓΙVΙΤΙΙ	ES
•	Identifies	some	5.	How	food	gets	•	Demon	strating	practic	es to
	deficiency			contaminate	ed (dirty	hands,		keep	food	safe	from
	diseases.			dirty conta	iiners, du	isty or		contam	ination		
•	Prepares	local		dirty surrou	nding, fli	es)	•	Making	g material	s that he	lp keep
	dishes	using	6.	Prevention	of	food		food sa	fe e.g. fo	od cover	·s.
	common fo	ods in.		contaminati	ion (C	ooking	•	Prepari	ng at leas	t one loc	cal dish
	the commun	nity		well, coveri	ng food, S	Serving		using in	ndigenous	s technol	logy
				in clean con	ntainers, S	Serving	•	Relatin	g the	different	food
				in clean	enviro	nment,		values	to the	eir def	iciency
				Preparation	of simple	dishes		disease	s.		
				using local	food)						

- 1. Using group work, assess learners' ability to demonstrate correct practices in keeping food safe from contamination.
- 2. Using the project method, assess learners' ability to prepare local dishes.
- 3. Using a written/brailled exercise, assess learners understanding of deficiency diseases (their cause, signs and symptoms).

THEME: HUMAN BODY

TOPIC 1: MAJOR BODY ORGANS (10 PERIODS)

Topic overview

This is topic 2, term 2, in the standard P.4 curriculum. It provides learners with an understanding of their internal organs and the functions of each organ. This helps the leaners to take appropriate care for these organs.

COMPETENCES	CONTENT	SUGGESTED ACTIVITIES
The learner.	1. Major organs of the	• Using think-pair-share,
• Names/signs different	human body	learners identify the eternal
organs of our body.	(eyes, brain, ears,	parts of their bodies.
• States the function of	stomach, bladder,	• Using a model or a chart,
the different organs of	heart, lungs, liver,	learners identify the internal
our body.	kidneys)	parts of the body.
	2. How the human	
	body works	

COMPETENCES			CONTENT				SUGGESTED ACTIVITIES			
•	Describes	ways	in	Ü	takes	in	food	and	•	Learners identify the
	which our bo	ody wor	ks.		oxyge	n				approximate positions of the
•	Draws and	labels	the	-	uses	fo	ood	and		internal organs from an
	different hu	ıman b	ody		oxyge	n to	get en	ergy		external perspective
	organs.			-	remov	e wa	astes		•	In groups, learners explain the
										functions of their internal
										organs
									•	Using preserved organ
										specimens, learners identify
										internal organs.

- 1. Assess learners' ability to identify internal organs of the human body.
- 2. Assess learners' ability to explain how the human body works.

THEME: HUMAN BODY

TOPIC 11: THE TEETH (10 PERIODS)

Overview

This is a term two, P.4 third topic in the standard curriculum. Oral health is important in maintaining our health. The learners of P.4 should be taught on how to maintain oral health (oral hygiene). In this topic, learners will have an understanding of sets of teeth, types of teeth, functions of each type of teeth, the teeth structure (parts), care for teeth, teeth diseases and disorders.

COMPETENCES	CONTENT	SUGGESTED ACTIVITIES
The learner.	• Sets of teeth (milk teeth,	Observing the jaws of a
• Names the sets of teeth	permanent teeth)	mammal and how the teeth
• Describes the different	Types of teeth	are fixed
types of teeth and their	(Canines, incisors, premolars and	Observing and classifying
function	molars)	the different types of teeth
• Explains the functions of	• Functions of types of teeth.	Drawing and labeling
each type of tooth.	(Cutting, tearing, grinding,	the structure of different
	chewing)	types of teeth.
	Teeth structure	

COMPETENCES	CONTENT	SUGGESTED ACTIVITIES
• Draws different types of	(Enamel, crown, neck, root)	Identifying the diseases and
teeth with correct	• Care of our teeth	disorders of teeth.
labelling	(Brushing, flossing, regular	Practicing correct way of
• Identifies the diseases and	dental check-up, eating correct	brushing teeth and
disorders of the teeth	food, use toothpaste)	maintaining good oral
• Demonstrates how to	• Teeth diseases and disorders	hygiene.
brush the teeth correctly	(Dental cavity, dental carries,	
• Practices habits that	tooth cracks, dental plaque,	
promote oral health	improper growth, broken teeth)	

- 1. Using a practical approach, assess as the learners classify the different types of teeth.
- 2. Using written test, assess learners' ability to explain the functions of each type of tooth.
- 3. Assess learners' ability to demonstrate some of the best practices of caring for the teeth

TERM THREE

THEME: HUMAN HEALTH

TOPIC 12: SANITATION (10 PERIODS)

Overview

This is topic 4, term 2 in the standard P.4 curriculum. It provides learners with an understanding of keeping the surroundings clean, the different reasons for keeping the environment clean, learners should be equipped with skills to handle sanitation challenges. In this topic the learners will also learn about germs and diseases, building from the knowledge learnt from primary three.

COMPETENCES	CONTENT	SUGGESTED ACTIVITIES		
The learner;	1. What sanitation is	• Learners share their experiences of		
• States what	2. Importance of good	waste disposal in their		
sanitation is.	sanitation in our	communities.		
	environment			
	3. Germs and diseases			

COMPETENCES	CONTENT	SUGGESTED ACTIVITIES
• Discusses the	- what they are	Making a tour around the school to
importance of	- where they are found	identify areas for disposal of waste,
proper sanitation	- how they are spread	the toilets, the urinals etc.
Explain what germs	- the 4Fs germ path	Learners observe and record the
are.	- How they cause rotting	uses of these areas.
• Discusses how the	4. Ways of protecting against	Learners identify whether or not
germs are spread	germs and diseases in the	these areas are properly used
• Describes the	environment, school, on the	• Show a video of the 4Fs germ
different ways of	way and in the homes	pathway e.g.
maintaining proper		https://www.youtube.com/watch?
sanitation.		v=YBGsoimPXZg
		• Learners demonstrate ways of
		protecting themselves against
		germs especially, proper hand
		washing procedures, smoking
		latrines, burning rubbish, spraying
		suing insecticides, sweeping the
		compound.
		• Using the whole class approach,
		learners describe ways diseases
		spread.

- 1. Set up projects within the school where learners take part in maintaining sanitation. Observe and record the success of these projects and the participation of individual learners in the projects.
- 2. Assess learners' competence on explaining how diseases are spread and importance of sanitation through written/brailed assessment.

THEME: HUMAN HEALTH

TOPIC 13: COMMUNICABLE INTESTINAL DISEASES AND WORM INFESTATION (20 PERIODS)

Overview

This is topic 1, term 3 in the standard P.4 curriculum. It provides learners with an understanding of diarrhoeal diseases, causes of intestinal communicable diseases and how they are spread, different kinds of worms, their signs and symptoms and how they can be prevented.

COMPETENCES	CONTENT	SUGGESTED
		ACTIVITIES
The Learner;	• Diarrhoeal diseases;	• Learners share
Identifies	- Diarrhoea, Dysentery, Cholera,	their experiences
diarrhoeal diseases.	Typhoid	of diarrhoeal
Describes the	• Causes of intestinal communicable	diseases (stories
causes of diarrhoeal	diseases;	about diarrhoeal
diseases and how	- Bacteria, Virus, Protozoa , Worms	diseases)
they can spread.	• How some common intestinal	• Learners watch
Demonstrates how	communicable diseases are spread	videos of
to mix and	through 4Fs.	diarrhoeal
administer oral	• Signs and symptoms of common	diseases
rehydration	intestinal communicable diseases,	Demonstrating
solution (ORS) and	diarrhoea, dysentery, cholera and	how to make an
make salt-sugar	typhoid.	Oral Rehydration
solution (SSS).	• Treatment and prevention of common	Solution and Salt
Identifies types of	communicable diseases.	Sugar Solution
worms.	- Mixing and administering ORS.	Demonstrating
Explains how	- Easting well-prepared foods.	practices that
worms enter the	- Drinking boiled water.	prevent the entry
body.	- Proper personal and food hygiene.	of worms in the
Describes signs and	- Seek medical advice.	body
symptoms or worm	Worm infestation	• Learners act/signs
infestations.	- Tape worms	a skit on how
 Describes treatment 	- Round worms (hookworms, askaris).	worms enter the
of worms and	- Thread worms (pin worms)	body, their effects
intestinal	· · · · · · · · · · · · · · · · · · ·	on the body and

COMPETENCES	CONTENT	SUGGESTED
		ACTIVITIES
	• Describe signs and symptoms of worm	how to treat worm
	infestation.	infestations.
	• Treatment and prevention of worm	
	infestations.	
	- Well cooked meat	
	- Wear shoes and sandals	
	- Wash and foods eaten raw	

- Observe and record as learners prepare Oral Rehydration Solution and / or Salt Sugar Solution
- 2. Assess learners individual ability to identify diarrhoeal diseases and their causes.
- 3. Assess individual learners' participation in the skit about prevention of diarrhoeal and intestinal diseases.

THEME: HUMAN HEALTH

TOPIC 14: VECTORS AND DISEASES (20 PERIODS)

Overview

This is a topic 2, term 3 in the standard P.4 curriculum. The topic helps learners to identify common vectors in their communities. It is intended to increase learners' awareness about disease vectors and how to control/prevent them.

COMPETENCES	CONTENT	SUGGESTED ACTIVITIES	
The Learner;	• Common vectors: bed bugs,	• Learners capture vectors in	
 Names/signs some 	cockroaches, ticks, fleas, house,	their environment	
disease vectors.	flies, mites, rates, lice,	• Learners observe external	
States	mosquitoes, and tsetse flies.	parts of vectors they	
characteristics of	• Characteristics of disease	captured or brought to the	
some disease	vectors:	classroom by the teacher	
vectors.	Their body structures	Drawing and labeling the	
• Describe the life	Their habitat	external parts of the	
cycle of some	Their feeding habits	common vectors	
vectors.		• Learners share their	
		experiences about common	

COMPETENCES	CONTENT	SUGGESTED ACTIVITIES
 Explain how vectors spread disease. Identifies the diseases spread by the vectors. Practices correct prevention and control of diseases spread by vectors. Names/signs what causes HIV/AIDS Explains ways in which HIV/AIDS spreads 	 CONTENT The life cycle of mosquitoes, cockroaches, houseflies, and tsetse flies. How vectors spread diseases: Bites, dirty body, dirty environment. Prevention and control: Proper hygiene Covering food Spraying Biological control Sleeping under mosquito nets. HIV/AIDS the concept of HIV/AIDS; causes and spread of HIV/AIDS; effects 	vectors (houseflies, mosquitoes, cockroaches etc.) • Observing, recording and reporting about common vectors and their habits at home • In whole class approach, learners discuss the diseases spread by the vectors (name, signs and symptoms) • Learners demonstrate ways of controlling the diseases spread by common vectors
which HIV/AIDS	HIV/AIDS the concept of HIV/AIDS; causes and spread of	of controlling the diseases

- 1. Assess learners' ability to identify and describe the life cycles of different common vectors.
- 2. Assess learners' ability to demonstrate effective methods of controlling the diseases spread by the common vectors. Assess learners' participation in the skit and their understanding of the skit.
- 3. Using the project method, assess learners' ability to participate in activities that control the spread of diseases spread by common vectors.

THEME: HUMAN HEALTH

TOPIC 15: ACCIDENTS, POISONING AND FIRST AID (18 PERIODS

Overview

This is topic 3, term 3 in the standard P.4 curriculum. Accidents are common occurrences in the lives of children; this is partly due to their poor coordination of body organs, playfulness and their inadequate experiences in the harmful effects of objects in their surroundings. This topic intends to increase the awareness of the learners about the causes and effects of accidents and equip them with skills of supporting victim of accidents.

A	
	CTIVITIES
the •	Brainstorm about
	accidents and
	poisoning at home,
	on the way to, from
iting	and at school.
•	Demonstrating
the	ways of preventing
	accidents at home,
	way and at school
ng •	Demonstrating
of	ways of
	administering first
	aid to a casualty.
•	Establish projects
ts	in schools to reduce
	accidents at school.
•	Collecting local
	materials that can
	be used to carry out
	first aid in the
	community.
	the of

- 1. Assess individual learners' ability to identify common accidents, causes and prevention.
- 2. Assess learners' competence to demonstrate how to administer first aid to an accident casualty.

3. Design and allow learners to carry out activities to ensure that the homes and schools are safe from accident

THEME: SCIENCE IN HUMAN ACTIVITIES AND OCCUPATIONS

TOPIC 16: KEEPING RABBITS (12 PERIODS)

Overview

This is the last topic in the standard P.4 curriculum. The topic develops learners' competences and appreciation of keeping rabbits as a viable livelihood activity. Where possible, the teacher needs to establish a demonstration farm in schools for learners to practice rabbit keeping practices like feeding, sanitation, vaccination, treatment etc.

COMPETENCES	CONTENT	SUGGESTED
		ACTIVITIES
 The Learner; Names of external parts of a rabbit. 	1. External parts of a rabbitHeadEyes	Visiting a rabbit farm within the school's community
 Names different types of rabbits and their uses. Compares the different types of rabbits. Constructs a hutch for rabbits. Describes breeding habits of rabbits. Names/signs common diseases of rabbits. Practices the control, prevention and treating of rabbit diseases. Demonstrates skills in keeping rabbits. 	 Ears Types and uses Types; Local, Exotic Uses; Meat, Manure, Money, Skin for making bags and belts Construction of rabbit hutch (housing) Management practices (Keeping rabbits) Feeding rabbits Breeding of rabbits Hygiene Common diseases; Ear canker, Flu, Cold, Coccidiosis, Pneumonia, Snuffles, Fleas, Mites, Ticks Control and treatment of diseases of rabbits. 	 In case the school has a rabbit farm, the learners should visit the farm Constructing a rabbit hutch Demonstrating correct practices in rabbit keeping Setting up projects of rabbit keeping Demonstrating practices of control of pests and diseases of rabbits

- 1. In groups, assess learners' ability to construct hutches for rabbits
- 2. Individually, using the schools farm, assess learners' ability to take care of rabbits
- 3. Using the project method, assess learners' ability to establish and manage rabbit farms (either in school or at home) this may involve home visits by the teacher

P.5 INTEGRATED SCIENCE ABRIDGED CURRICULUM

TERM 1

THEME: SCIENCE IN HUMAN ACTIVITIES AND OCCUPATIONS

TOPIC 1: KEEPING RABBITS (12 PERIODS)

Overview

This is the last topic in the standard P.4 curriculum. The topic develops learners' competences in and appreciation of keeping rabbits as a viable livelihood activity. Where possible, the teacher needs to establish a demonstration farm in schools for learners to practice rabbit keeping practices like feeding, sanitation, vaccination, treatment etc. The teacher should organise more remedial lessons to ensure mastery of the content by learners through revision activities.

COMPETENCES	CONTENT	SUGGESTED ACTIVITIES		
 Lists names of external parts of a rabbit. Names different types of rabbits and their uses. Compares the different types of rabbits. Constructs a hutch for rabbits. Describes breeding habits of rabbits. Names common diseases of rabbits. 	 6. External parts of a rabbit Head Eyes Ears 7. Types and uses Types; Local, Exotic Uses; Meat, Manure, Money, Skin for making bags and belts 8. Construction of rabbit hutch (housing) 9. Management practices (Keeping rabbits) Feeding rabbits Breeding of rabbits Hygiene 	 In case the school has a rabbit farm, the learners should visit the farm Constructing a rabbit hutch Demonstrating correct practices in rabbit keeping Setting up projects of rabbit keeping Demonstrating practices of control of pests and diseases of rabbits Learners in groups participate in a debate on the advantages of keeping rabbits to other farm animals 		
diseases of rabbits. Practices the control, prevention and treating of rabbit diseases. Demonstrates skills in keeping rabbits.	 Hygiene Common diseases; Ear canker, Flu, Cold, Coccidiosis, Pneumonia, Snuffles, Fleas, Mites, Ticks 			

COMPETENCES	CONTENT	SUGGESTED ACTIVITIES
	10. Control and treatment of	Learners formulate samples
	diseases of rabbits.	of records that can be kept
	11. Keeping rabbit records	on a rabbit farm.

- In groups, assess learners' ability to construct hutches for rabbits.
- Individually, using the schools farm, assess learners' ability to take good care of rabbits.
- Using the project method, assess learners' ability to establish and manage rabbit farms
 (either in school or at home) this may involve home visits by the teacher.

THEME: SCIENCE IN HUMAN ACTIVITIES AND OCCUPATIONS.

TOPIC 2: KEEPING POULTRY AND BEES (20 PERIODS)

Overview

This is topic 1, term 1 in the standard P.5 curriculum. The topic is intended to develop learners' awareness and equip them with survival skills of keeping poultry and bees as a viable livelihood activity. The topic should largely expose learners to actual farm practices like feeding, sanitation, vaccination, and treatment where possible. There is need to use real poultry during the teaching intensively and field study to avoid abstract learning.

COMPETENCES	CONTENT	SUGGESTED ACTIVITIES	
	■ Types of poultry (chicken,	■ Learners visit a nearby	
The Learner;	turkey, guinea fowls, ducks,	poultry farm. Individually	
• Identifies different types	pigeons).	identify and take note of	
of poultry.	External features of a domestic	different types and breeds	
• Describes the external	fowl (male and female)	of poultry.	
parts of a domestic fowl.	comb, beak, wing, legs,	 Working in groups, learners 	
• Identifies the different	feathers, claws, wattle and	describe the external parts	
types of chicken.	scales.	of a domestic fowl.	
Describes the breeds of	■ Types of chicken	■ In groups, learners explain	
chicken.	-broilers	the different uses of poultry	
• Explains the uses of	-layers	farming.	
poultry.	-dual purpose	■ Demonstrate some of the	
 Describes the systems of 	Breeds of chicken	management practices of	
keeping poultry: chicken.	 Systems of keeping poultry 	poultry on a farm for	
	(chicken)		

CO	OMPETENCES	CO	ONTENT	SU	JGGESTED ACTIVITIES
•	Explains how to manage a		-free range, deep litter, fold pen,		example feeding, cleaning
	poultry farm.		battery		etc.
•	Describes the life history	•	Management of poultry:	•	Watch a video
	of bees.	•	Chicken		demonstrating bee keeping
•	States the different types		-Proper feeding, housing, pest		and make observation of
	of bees.		and disease control and		types of beehives, and basic
•	States the importance of		treatment e.g. spraying and		requirements and practices
	bees.		vaccination.		in bee keeping
•	Explains the conditions	•	Types of bees		(if available)
	and reasons of swarming.		-drones, workers, queen		In groups, learners discuss
•	Identifies the types of	•	Importance of bees to plants		the different types of honey
	beehives.		and people.		bees, structures and roles of
•	Describes the different		-Pollination, honey, bee wax		each in a hive.
	methods of harvesting		and propolis.		
	honey.	•	Conditions and reasons for		With the guidance of the
•	Explains the importance		swarming		teacher, learners in groups,
	of bee farming as a		-Leakage in the hive, excessive		discuss the likely causes to
	business		heat, attack be enemies, bad		swarming in bees and
			smell, noise, looking for a new		prevention measures.
			hive.		
		•	Types of hives		Learners in groups of four,
			-Traditional beehives e.g.		make models of beehives.
			Kigezi, dug out log, tin.		With their teachers, learners
			-Modern beehives e.g. box hive,		make a study tour to a
			top bar hive.		nearby a piary and note the
		•	Harvesting honey		different practices involved
			-traditional and modern		in keeping of honey bees.
			methods		
		•	Bee farming as a business		
		•	money, food, candles, plastics,		
			and employment.		

- 1. Observe and assess the individual learners' interests and abilities of taking care of poultry and bees, using the schools farm, or contextualized environment of the lesson
- 2. Using the project method, assess learners' ability to establish and manage poultry or bee keeping project (either in school or at home) this may involve home visits by the teacher

THEME: MATTER AND ENERGY

TOPIC 3: MEASUREMENTS (12 PERIODS)

Overview

This is topic 2, term 1 in the standard P.5 curriculum. The topic is designed to equip learners with basic knowledge about standard measurements of quantities like mass, weight, and volume. The proper use and the rightful instruments/ apparatus should be emphasised. There is need for the teacher to use real measurement instruments to make the learning real to the learners.

COMPETENCES	CONTENT	
	Measuring	Individual learners collect
The Learner;	-mass and weight	different objects/
 States the different 	-capacity and volume	substances/liquids and discuss
measurements of	 Behaviour of objects 	in groups about the quantities to
objects.	with water	be measured.
Explains the need for	-floating and sinking	 Discuss about the descriptions
standard measures of	-displacement	of quantities and related key
mass, weight and	methods	concepts.
volume.	 Finding density of 	Demonstrate measurement of
 Uses the correct 	different objects in	different instruments/apparatus
instruments and	relation to mass and	to determine the quantities
apparatus to take	volume.	measured using correct units.
measurements		Using whole class approach,
		learners discuss about the
		different behavior of objects
		when in water
		 Individually calculate the
		density of different objects in
		relation to mass and volume.

Assessment guidelines

1. In small groups, learners determine measurements of given objects.

- 2. Use practical work to assess learners' knowledge competences about behaviour of objects when in water. Allow them to bring a variety of materials or objects and measurement apparatus.
- 3. Using written tests, assess individual learner's competence on the behaviour of different objects when in water and calculations about density of different objects.

THEME: HUMAN HEALTH

TOPIC 4: COMMUNICABLE INTESTINAL DISEASES WORM INFESTATIONS AND VECTORS (25 PERIODS)

Overview

These are topics 1 and 2 of term 3 in the standard P.4 curriculum and are intended to guide learners gain an understanding of communicable diseases and intestinal infestations, their causes, treatment, and prevention. The topic also presents aspects of diseases and vectors. You should guide learners to gain the understanding of how such diseases can be prevented.

should guide learners to gain the understanding of how such diseases can be prevented.			
COMPETENCES	CONTENT	SUGGESTED ACTIVITIES	
The Learner;			
Identifies	Diarrhoeal diseases.	• Learners share their	
diarrhoeal diseases.	- Diarrhoea, Dysentery,	experiences of diarrhoeal	
Describes the	Cholera, Typhoid	diseases (stories about	
causes of	Causes of intestinal common	diarrhoeal diseases).	
diarrhoeal diseases	communicable diseases.	Demonstrating how to	
and how they can	- Bacteria, Virus, Protozoa,	make an Oral	
spread.	Worms	Rehydration Solution	
 Demonstrates how 	How some common intestinal	and Salt Sugar Solution.	
to mix and	communicable diseases are	Demonstrating practices	
administer oral	spread through 4Fs.	that prevent the entry of	
rehydration	Signs and symptoms of common	worms in the body.	
solution (ORS) and	intestinal communicable diseases,	• Learners act a skit on	
make salt-sugar	diarrhoea, dysentery, cholera, and	how worms enter the	
solution (SSS).	typhoid.	body, their effects on the	
 Identifies types of 	Treatment and prevention of	body and how to treat	
worms.	common communicable diseases.	worm infestations.	
Explains how	- Mixing and administering	Learners identify/capture	
worms enter the	ORS.	vectors in their	
body.	- Easting well-prepared foods.	environment.	

COMPETENCES	CONTENT	SUGGESTED ACTIVITIES
 Describes signs and 	- Drinking boiled water.	• Learners observe
symptoms or worm	- Proper personal and food	external parts of vectors
infestations.	hygiene.	they captured or brought
Describes	 Seek medical advice. 	to the classroom by the
treatment of worms	• Worm infestation	teacher.
and intestinal	- Tape worms	• Drawing and labeling the
Names some	- Round worms (hookworms,	external parts of the
disease vectors.	askaris).	common vectors.
States	- Thread worms (pin worms)	• Learners share their
characteristics of	• Describe signs and symptoms of	experiences about
some disease	worm infestation.	common vectors
vectors.	• Treatment and prevention of	(houseflies, mosquitoes,
 Describes the life 	worm infestations.	cockroaches etc.).
cycle of some	- Well cooked meat	• Observing, recording,
disease vectors.	- Wear shoes and sandals	and reporting about
Explain how the	- Wash and foods eaten raw	common vectors and
vectors spread	• Common vectors: bed bugs,	their habits at home.
diseases.	cockroaches, ticks, fleas, house,	• In whole class approach,
 Identifies the 	flies, mites, rates, lice,	learners discuss the
diseases spread by	mosquitoes, and tsetse flies.	diseases spread by the
the vectors.	• Characteristics of disease vectors:	vectors (name, signs, and
• Demonstrates	• Their body structure	symptoms).
correct prevention	• Their habitat	• Learners demonstrate
and control of	• Their feeding habits	ways of controlling the
diseases spread by	• The life cycle of mosquitoes,	diseases spread by
vectors.	cockroaches, houseflies, and	common vectors e.g.
Names what	tsetse flies.	spraying insecticide,
causes HIV/AIDS	 How vectors spread diseases: 	proper use of a mosquito
• Explains ways in	Bites, dirty body, dirty	net etc.
which HIV/AIDS	environment.	• Acting a skit on the
spreads	Prevention and control:	causes, prevention of
• Discusses the	 Proper hygiene 	HIV/AIDS in the
effects of	Covering food	community.
HIV/AIDS	Spraying	
	~ r	22

COMPETENCES	CONTENT	SUGGESTED ACTIVITIES
• Explains ways of	Biological control	
caring for	Sleeping under mosquito nets.	
HIV/AIDS	HIV/AIDS the concept of	
patients.	HIV/AIDS; causes and spread of	
	HIV/AIDS; effects of HIV/AIDS;	
	ways of caring for HIV/AIDS	
	patients e.g., not sharing sharp	
	objects, using gloves when	
	helping HIV/AIDS patients	
	Control measures e.g., blood test,	
	taking medicine, feeding well	
	(balanced diet)	
	PIASCY Messages.	

- 1. Observe and record as learners prepare Oral Rehydration Solution and / or Salt Sugar Solution.
- 2. Assess individual learners' participation in the skit about prevention of diarrhoeal and intestinal diseases.
- 3. Using a written test, assess learners understanding of prevention of worm infestations Assess learners' ability to demonstrate effective methods of controlling the diseases spread by the common vectors.
- 4. Assess learners' participation in the skit and their understanding of the skit about disease vectors.
- 5. Using the project method, assess learners' ability to develop activities to control the spread of diseases spread by common vectors.

THEME: HUMAN HEALTH

TOPIC 5: IMMUNISATION (10 PERIODS)

Overview

This is topic 3, term 1 of the P.5 standard curriculum. The topic enhances learners' awareness of immunity and immunisable diseases. It also equips learners with knowledge about preventive measures for the different immunisable diseases, appreciate and be able to take part in the immunisation activities willingfully.

COMPETENCES	CONTENT	SUGGESTED ACTIVITIES
The learner:	Immunity	Learners through
• Identifies the	-What is	brainstorm about
different types of	-Types of immunity	immunity and the
immunity.	 Natural 	different types of
• Explains the	 Acquired 	immunity.
importance of	2. Importance of immunity	Learners think-pair share
immunity.	3. Immunisable childhood diseases	about the importance of
• Identifies	-Polio	immunity.
different	-Tuberculosis	Learners study the
vaccines and	-Diphtheria	immunization card
relates them to	-Measles	samples and identify
immunisable	-Whooping cough	different vaccines.
diseases.	-Tetanus	Learners study charts
• Identifies signs	-Hepatitis B	with illustrations of
and symptoms of	-Haemophilia influenza	children suffering from
different	4. Causes, spread, signs, symptoms	different immunisable
immunisable	and effects.	diseases and share the
diseases.	5. Vaccines	observable signs.
Identifies other	-What they are	• Working in groups,
immunisable	-Storage	learners identify the
diseases.	6. Types of vaccines	immunisation centres in
Relates the	-Measles vaccine	the area.
vaccines to	-Polio vaccine	• Learners individually
diseases.	-DPT	share about prevention
• Identifies	-BCG, Hep B., Heb	and treatment for the
immunization	7. Administration of vaccines	different immunisable
centres in the	-Orally	diseases.
area.	-By injection	• Learners perform a short
• Describes	Other immunisable diseases	drama highlighting the
treatment for	8. Other immunisable diseases.	cause, signs and
immunizable	-Cholera	symptoms as well as
diseases.	-Yellow fever	prevention of the
	-Meningitis	immunisable diseases

COMPETENCES	CONTENT	SUGGESTED ACTIVITIES
	-Signs, symptoms, and effects of	• In small groups, learners
	other immunisable diseases	make mini presentations
		about immunity and the
		different types of
		immunity

- 1. Assess learners' ability to identify the immunisable childhood diseases.
- 2. Assess individual learners' competence in describing the common signs and symptoms of the different immunisable diseases.
- 3. In groups, assess learners' knowledge/understanding of preventive measures of the six immunisable diseases using a quiz.

TERM 2

THEME: HUMAN HEALTH

TOPIC 6: ACCIDENTS, POISONING AND FIRST AID (10 PERIODS)

Overview

This is topic 3, term 3 of the P.4 standard curriculum. Accidents are common occurrences in the lives of children; this is partly due to their poor coordination of body organs, playfulness, and their inadequate experiences in the harmful effects of objects in their surroundings. This topic intends to increase the awareness of the learners about the causes and effects of accidents and equip them with skills of supporting casualties of accidents. The teacher should create more remedial lessons through open revision tests and discussions to enhance understanding of this topic by learners.

COMPETENCES	CONTENT	SUGGESTED
		ACTIVITIES
The learner;	1. Accidents at home, on the	• Learners
 Names the common accidents 	way and at school:	brainstorm about
and poisoning at home, on the	- Types of injuries	common accidents
way to, from and at school.	- Causes	at home, school, on
 States causes of accidents and 	- Ways of preventing	the way to and from
poisoning.	accidents	school.
	- Safety rules on the road.	

COMPETENCES	CONTENT	SUGGESTED
		ACTIVITIES
Demonstrates correct practices	2. Poisoning	Demonstrating
to avoid accidents.	- Causes of poisoning	ways of preventing
 Practices habits, which help to 	- Prevention of poisoning	accidents at home,
avoid accidents and poisoning	3. First Aid Kit	way and at school.
at home, on the way and at	- Components	 Demonstrating
school.	- Uses of components	ways of
 Demonstrates how to care for 	- Giving First Aid	administering first
an injured person.		aid to a casualty.
 Demonstrates how to care for 		• Establish projects
an injured person.		in schools to reduce
 Describes how to take care for 		accidents at school.
a person who has taken poison.		• Collecting local
		materials that can
		be used to carry out
		first aid in the
		community.

- 4. In groups assess learners' ability to demonstrate how to administer first aid to casualties of different accidents.
- 5. Assess learners' practical ability on ensuring safety at home and school.
- 6. Using written test, assess learners' knowledge about causes and preventive measures of common accidents.

THEME: HUMAN BODY

TOPIC 7: THE TEETH AND DIGESTIVE SYSTEM (20 PERIODS)

Overview

'The Teeeth' is topic 3, term two, in the P.4 standard curriculum and 'The Digestive System' is topic 4, term 1, in the P.5 standard curriculum. They have been merged because 'The Teeth' had not been covered when schools closed due to COVID 19 lockdown and to provide continuity and understanding of the process of digestion right from the time food is in the mouth up to the time when the undigested remains of food leave the body through the anus. The content is intended to enhance learners' knowledge about the functions of each type teeth

and the functions of the different organs of the digestive system. This helps the leaners to take appropriate care for their teeth and the digestive system.

COMPETENCES	CONTENT	SUGGESTED ACTIVITIES
The learner:	Types of teeth	Observing the jaws of a
• Describes the different types	(Canines, incisors, premolars	mammal and how the teeth
of teeth and their function	and molars)	are fixed
• Identifies the diseases and	• Functions	Observing and classifying
disorders of the teeth	(Cutting, tearing, grinding,	the different types of teeth
Demonstrates how to brush	chewing)	Drawing and labeling
the teeth correctly	Teeth structure	the structure of different
Practices habits that promote	(Enamel, crown, neck, root)	types of teeth.
oral health	• Care of our teeth	Identifying the diseases and
• Draws different types of	(Brushing, flossing, regular	disorders of teeth.
teeth with correct labelling	dental check-up, eating correct	Demonstrating the correct
• Explains what the digestive	food, use toothpaste)	way of brushing teeth and
system is.	• Teeth diseases and	maintaining good oral
• Identifies parts of the	disorders	hygiene.
digestive system.	(Dental cavity, dental carries,	Naming the different parts
• Describes the functions of	tooth cracks, dental plaque,	of the digestive system.
the different parts of the	improper growth, broken	Explaining the functions of
digestive system.	teeth)	the different parts of the
• Describes signs and	Digestive system	digestive system.
symptoms of diseases and	What it is	Drawing and labeling the
disorders of the digestive	• Parts of the digestive	different parts of the
system.	system	digestive system.
	• Functions of the different	• Discussing ways of
	parts of the digestive	preventing and
	system	management of diseases
	• Diseases and disorders of	and disorders of the
	the digestive system	digestive system.
	(causes, signs and	
	symptoms)	
	• Prevention and	
	management of diseases	

COMPETENCES	CONTENT	SUGGESTED ACTIVITIES
	and disorders of the	
	digestive system	

- 1. Using a practical approach, assess as the learners' knowledge about classification of the different types of teeth.
- 2. Using a written test, assess learners' knowledge competences about the structure and functioning of the digestive system.
- 3. Assess learners' ability to demonstrate some of the best practices of caring for the teeth and the digestive system.

THEME: THE ENVIRONMENT

TOPIC 8: SOIL (15 PERIODS)

Overview

This is topic 1 term 2 of the P.5 standard curriculum. This will enable learners to study about soil as a major component of the environment. Learners should be helped to find out how soil helps people to survive and its relationship with other components of the environment. Experiments on soil should be intensively used to enhance understanding of the content by the learners and avoid abstract learning.

COMPETENCES	CONTENT	SUGGESTED ACTIVITIES
The learner:	1. Soil	Individually learners identify and
• Identifies the	What it is	describe the types of soil.
different types	 Uses of soil 	• Learners collect samples of soil
of soil.	Types of soil	and carry out experiments to show
• Describes	• Loam	the different properties of soil as
composition of	• Clay	guided by the teacher.
soils	• Sand	Divide learners in small groups to
• Discusses uses		carryout experiments on the
of soil	2. Soil formation	different components of soil with
• Describes the	-Weathering of rock	guidance by the teacher.
different ways	-Decomposition of matter	• In small groups of 4-5, learners
soil is formed.	3. Components of soil	discuss the importance of soil.

COMPETENCES	CONTENT	SUGGESTED ACTIVITIES
• Investigates to	-Rock particles (mineral)	Demonstrate an experiment to
show properties	-Air	investigate soil erosion (use a
of different	-Water	wooden box, nails and wire mesh
soils.	-Humus/ organic matter	and watering can).
• Analyses the	-Bacteria and fungi (living	Use whole class discussion for
importance of	things)	learners to discuss types and
soil.	4. Importance of soil	causes of soil erosion.
• Describes the	- Plant growth	Make field visits and the teacher
types and	- Construction	guides learners to identify harmful
causes of soil	Pottery	materials in and on the soil.
erosion.	 - Animal habitat 	Individually learners state effects
• States the	– -Mining	of harmful materials on soil.
effects of	5. Soil erosion	Teacher guides the learners to
harmful	-What it is	watch the video on the link below.
materials on	-Types of soil erosion	https://www.youtube.com/watch?
soil.	-Causes of erosion	v=G8MO_8Zfu3Q
• Demonstrates	-Agents of erosion	Let learners practice methods of
methods of soil	6. Effects of harmful	soil conservation in the school
conservation.	materials on soil	compound such as, planting trees,
• Discusses ways	-Broken glasses/ tins	grass and mulching
of improving	-Plastics	• Individually learners identify
soil fertility.	-Polythene	ways of improving soil fertility.
• Investigates the	-Chemicals/ oils	Makes farm visits to investigate
advantages and	7. Soil conservation	the advantages and disadvantages
disadvantages	-What it is	of artificial fertilizers and manure
of artificial	-Methods of soil	(in farms where such fertilizers are
fertilisers and	conservation	used).
manure.	8. Soil fertility	Learners participate in making
• Demonstrates	-What it is	compost manure near the school
best ways of	-Ways of improving	garden.
making	soil fertility	Learners participate in compaigns
compost	-Artificial fertilizers	on how to promote soil
manure.	(in-organic)	conservation in their communities

COMPETENCES	CONTENT	SUGGESTED ACTIVITIES
• Writes poems	-Natural fertilizers	• Learners participate in the
on the different	(organic)	different activities that help to
ways of	e.g.	conserve soil
conserving soil.	 Compost 	
• Participate in	manure	
the activities	 Farmyard 	
that conserve	manure	
soil.	Green manure	
	• Organic	
	mulches	
	9. Advantages and	
	disadvantages of artificial	
	and natural fertilizers	
	(manure).	
	10. Making compost	
	manure (project).	

- Using a written test, assess each learner's ability to identify and name different types of soil.
- Observe and assess learner's competence on comparing drainage in different types of soil as they work in groups on the practical activity of soil drainage and capillarity.
- Assess each learner's competence about methods of conserving soil as they carry out related activities around the school gardens/compound
- Using project method and working groups, assess leaners' ability to prepare organic or compost manure for the school/home garden.

THEME: MATTER AND ENERGY

TOPIC 9: HEAT ENERGY (20 PERIODS)

Overview

This is topic 2 term 2 of the P.5 standard curriculum. This builds on the terms learnt in earlier classes such as mass, volume, and density. Build on this experience to introduce state of matter and forms of energy. Learners should be helped to identify the difference between types and forms of energy. Expose learners practically to the effect of heat in matter. Learners should be

helped to acquire scientific knowledge on effects of heat on things in the environment and demonstrate skills of investigating effects of heat on matter.

COMPETENC	CONTENT	SUGGESTED ACTIVITIES
ES		
		• Through brainstorming,
The learner:	1. Matter	learners name different states
• Analyses	• What it is	of matter.
what matter	Weight/mass	• In groups, learners experiment
is	• Properties of matter (experiments)	the mixing and separation of
• Investigates	-Has weight	mixtures.
the three	-Occupies space	• Through brainstorming
states of	-Exerts pressure	learners discuss the different
matter	2. States of matter	solutes and solvents
• Differentiate	• Solids	commonly used.
s between	• Liquids	• Through think-pair-share,
solutes and	• Gases	learners describe types and
solvents	3. Solutes, solvents, and solutions.	forms of energy.
• Identifies the	4. Energy	• Through demonstration, the
differences	• What it is	class carries out experiments
between	• Types of energy	to show the effects of heat on
types and	 Kinetic energy 	matter.
forms of	o Potential energy	• Individually learners state the
energy	5. Forms of energy e.g. heat, sound,	effects of heat on matter.
• Identifies	electric, magnetic, light (no details of	• Through think-pair-share
different	each needed)	learners discuss what energy
sources of	• Characteristics of forms of	is.
heat	energy (make work possible,	• Individually, learners draw
• Describes	transformation).	and label the vacuum flask and
the effect of	6. Heat energy	explains how it works
heat on	• What it is	• Under the teacher's guidance
matter	• Sources of heat e.g. sun, food,	learners measure and record
• Investigates	candle light, hot flat iron, hot	temperatures of different
methods of	charcoal, burning wood or coal,	objects.
heat transfer	and so on.	

COMPETENC	CONTENT	SUGGESTED ACTIVITIES
ES		
• States the	• Uses of heat e.g. to cook, dry	Individually learners draw and
difference	clothes, warm things.	label different thermometers.
between heat	7. Effects of heat gain and heat loss	• Through guided discovery,
energy and	Change of size/length	learners work out calculations
temperature	• Expansion (experiments on the	involving conversions in
• Relate heat	expansion).	°C and °F.
to	• Contraction (experiments on	• Learner's practice measuring
temperature	contraction)	and recording temperature
• Explains the	• Change of state e.g. melting,	using an infrared thermometer
types and	evaporation, freezing,	(temperature gun) correctly.
uses of the	condensation and sublimation.	• Learners watch a video on
thermometer	Increase in temperature	conversion of degrees
• Converts	Heat transfer (how heat travels)	https://www.youtube.com/wat
degrees	Conduction in solids	<u>ch?v=beNbdYc6_7o</u>
appropriatel	Convection in liquids and gases	
у	Radiation in vacuum	
	8. Uses of different methods of heat	
	transfer in our surrounding e.g.	
	The thermos flask	
	The charcoal stove	
	9. Heat and temperature	
	What temperature is	
	10. Thermometers and measure of	
	temperature	
	Types and uses of thermometers	
	Celsius scale	
	Fahrenheit scale	
	Six's (minimum and maximum)	
	The clinical thermometer	
	Differences between different	
	thermometers	
	11. Conversion from Celsius to	
	Fahrenheit and vice versa	

- Using written tests, assess each learner's ability to describe the characteristics of different states of matter.
- Assess each learner's competence in explaining how heat energy affects the environment.
- Using group work and mini presentations, assess each learner's ability in drawing and labelling different thermometers.
- Using practice exercises, assess each learner's competence in converting from Celsius to Fahrenheit and vice versa.
- Using project work, assess each learner's competence in differentiating between the forms of energy by researching about uses of the different forms of energy.

THEME: SCIENCE IN HUMAN ACTIVITIES AND OCCUPATIONS

TOPIC 10: OCCUPATIONS IN OUR COMMUNITY: CROP GROWING (10 PERIODS)

Overview

This is topic 3, term 2 in the P.5 standard curriculum. In this topic the learners are guided on how grow and care for common tuber crops in the community. Most of the activities should be done practically to enhance understanding and development of the intended knowledge, skills, and values.

COMPETENCES	CONTENT	SUGGESTED ACTIVITIES
The learner:	Common tuber crops	A field visit to the nearest
• Identifies the	- Root tubers e.g.	market to observe the
characteristics of common	-Sweet potatoes	common tuber crops sold in
tuber crops.	-Carrots	the market.
• Discusses ways of	-Cassava	Identifying the common tuber
growing and caring for	- Stem tubers e.g.	crops.
tuber crops.	-Irish potatoes	Grouping tuber crops as root
• Identifies pests and	- yams	tubers and stem tubers.
diseases of tuber crops.	• Growing and caring for tuber	Discussing the ways of
• Describes the	crops	growing and caring for tuber
characteristics of common	• Common pests and diseases of	crops.
	tuber crops	Trapping and observing some

COMPETENCES	CONTENT	SUGGESTED ACTIVITIES
tuber crop pests and their	• Characteristics of common	of the common pests of tuber
effects on crops.	tuber crop pests	crops.
• Discusses methods of	• Effects of pests and diseases on	Describing the characteristics
controlling pests and	tuber crops:	of common tuber crop pests.
disease of tuber crops.	-Rotting of tubers	
• Describes ways of	-Holes on tubers and leaves	Discussing the effects of pests
harvesting, processing and	-Leaf yellowing	and diseases on tuber crops.
storing tuber crops.	-Leaf curling	Demonstrating methods of
• Practices growing tuber	• Methods of controlling pests	controlling pests and diseases
crops (project by the	and diseases of tuber crops.	of tuber crops.
Young Farmer's Club).	• Harvesting, processing and	Describing ways of
	storage of tuber crops	harvesting, processing and
	• Science oriented clubs	storing tuber crops.
	-Young farmers club	Practicing growing tuber
		crops as a project.

- 1. Assess individual learners' exhibition of the different types of tuber crops.
- 2. Take learners to the school gardens and observe them practice planting tuber crops.
- 3. Observe and take notes as learners working in groups, demonstrate and discuss the ways of harvesting, processing, and storing tuber crops.

TERM 3

THEME: THE WORLD OF LIVING THINGS

TOPIC 11: FUNGI AND BACTERIA (10 PERIODS)

Overview

This is topic 4, term two in the P.5 standard curriculum. The topic helps learners to be aware of bacteria and fungi as disease agents. It is designed to equip learners with knowledge on how some bacteria and fungi are useful and harmful in our day-to-day life. Learners are also guided to discuss about bacteria and fungi as agents of diseases.

COMPETENCES	CONTENT	SUGGESTED ACTIVITIES
The learner:	1. Bacteria	In groups, learners discuss
• Describes bacteria,	What they are.	places where bacteria can be
where they are	Where they are found	found in a home or school.

COMPETENCES	CONTENT	SUGGESTED ACTIVITIES
found and where they breed Describes characteristics of bacteria Discusses ways of	Where they breed Nature of bacteria Harmful Harmless/ useful Prevention, control, and treatment of bacterial diseases	 SUGGESTED ACTIVITIES Teacher guides learners on describing the nature of bacteria. Through brain storming, learners discuss possible ways of preventing,
preventing, controlling, and treating bacterial diseases Describes fungi as harmless and harmful organisms Identifies dangers of fungi Discusses ways of preventing and controlling bacterial and fungal diseases	 What they are Where they are found Examples of fungi Harmful Harmless/ useful Uses of fungi (mushroom for food, mould for penicillin drug, in brewing). Dangers of fungi Prevention and control of diseases causes caused by fungi. Facts about bacteria and fungi They can cause diseases. They last for a long time 	controlling and treatment of bacterial diseases. • Learners research on fungi, what they are, where they are found, and they present their work during class discussion. • Individually learners mention examples of fungi • In groups learners identify dangers and usefulness of fungi. • Learners in small groups of 4-5, discuss ways of preventing, controlling, and treating fungal diseases. • Through think-pair-share, learners state the facts about bacterial and fungi.

- Assess each learner's ability to describe (orally, pictorial or written) what bacteria/fungi are, how they breed and feed.
- Assess each learner's ability to identify the diseases caused by bacteria/fungi, how they can be prevented, controlled, and treated.
- Assess each learner's ability to describe the usefulness/harmfulness of bacteria/fungi.

THEME: MANAGING CHANGES IN THE ENVIRONMENT

TOPIC 12: TYPES OF CHANGES – BIOLOGICAL, PHYSICAL AND CHEMICAL CHANGES (10 PERIODS)

Overview

This is topic 1, term 3 in the P.5 standard curriculum. In this topic, learners will be guided to study about the different changes in their environment. The learners will be guided to classify the changes under; Biological, Physical and Chemical. The learners will be encouraged to perform simple experiments on changes of matter.

COMPETENCES	CONTENT	SUGGESTED
		ACTIVITIES
The learner:	- Types of Changes in the environment	
• Describes how	- Biological changes	Naming the different
changes take place in	- What they are	types of changes in the
the environment.	- Growth in plants and animals.	environment.
• Describes the	- Physical changes in plants and animals	• Classifying the
different changes in	- Managing body changes	changes under
the environment.	-body care	biological, physical,
• Describes the	-guidance	and chemical.
different effects/	- Chemical changes	• Carrying out
consequences of	- What they are	experiments on
various changes in	-rusting	changes in different
the environment.	-fermentation	states of matter.
	-respiration	
	-rotting and decaying	
	- Physical changes	
	- What they are	
	- Changes in weather	
	- Changes in the	
	states of matter	
	-land slides	
	-earthquakes	
	- Placement faulting/volcanic actions	
	- Characteristics of various	

COMPETENCES	CONTENT	SUGGESTED
		ACTIVITIES
	types of changes in the	
	environment	
	- Consequences of various types of	
	changes to people, animals and plants	
	- Increases in size	
	- Increases in temperature	
	- Mountain formation	
	- Rain formation	
	- Change of state	
	- New things are formed	
	- Placement of things	
	- Natural causes of changes in the	
	environment e.g. Floods, drought,	
	earthquake, hailstones, landslides,	
	storms, lightening, thunder	
	- Effects of changes; Hunger,	
	destruction of homes and property,	
	plants, animals	
	- Soil erosion, Diseases / epidemics,	
	migrations	
	- Ways of managing changes	
	- Changes in the environment through	
	human activities	

- 1. Name different changes that happen to living things.
- 2. Group learners and guide them to discuss about changes in the environment. Assess learners' knowledge competences about categorized changes in the environment under:
 - a) Biological
 - b) Physical
 - c) Chemical
- 3. Using written exercises, assess learners understanding about the different ways of managing changes that happen in our environment.

4. Use project work to assess learners' demonstration of different ways of managing changes in the environment.

THEME: SCIENCE IN HUMAN ACTIVITIES AND OCCUPATIONS

TOPIC 13: KEEPING GOATS, SHEEP AND PIGS (20 PERIODS)

Overview

This is topic 2, term 3 in the P.5 standard curriculum. The learners will be guided to use scientific knowledge and skills to keep goats, sheep, and pigs. The learners should be taken to visit nearby animal farms to observe the skills of keeping goats, sheep, and pigs practically.

COMPETENCES	CONTENT	SUGGESTED ACTIVITIES
The learner:	Goats, sheep and pigs	Drawing and labelling external
• Identifies names of external parts	keeping	parts of goats, sheep, and pigs.
of goats, pigs and sheep.	• External parts of	- Identifying products got from
• Describes uses of goats, sheep and	goats, sheep and pigs.	goats, sheep and pigs.
pigs.	• Housing and	– In small groups, learners
• Discusses the causes, signs,	management of goats,	describe the management
symptoms, prevention and control	sheep and pigs.	practices of goats, sheep and
measures of diseases in goats,	• Products from goats,	pigs.
sheep and pigs.	sheep and pigs:	- Using whole class approach,
	- Meat	learners discuss how to control
	- Skins	parasites and diseases of goats,
	- Wool	sheep and pigs.
	- Milk	
	Diseases and parasites of	
	goats, sheep and pigs	
	- Causes	
	- Signs and	
	symptoms	
	- Prevention and	
	control.	

Assessment guidelines

1. Assess the individual learner's ability to draw and label the external parts of a goat, a sheep and a pig.

- 2. Assess individual learners' competence to identify the products got from goats, sheep and pigs.
- 3. In groups, assess learners' competences to discuss how you can control the parasites and diseases of goats, sheep and pigs.

THEME: HUMAN HEALTH

TOPIC 14: FOOD AND NUTRITION (20 PERIODS)

Overview

This is topic 3, term 3 in the P.5 standard curriculum. The content under this topic facilitates learners' understanding of advantages and disadvantages of breastfeeding, bottle feeding, traditional customs, and taboos. Learners are guided to determine the importance of giving a balanced diet to vulnerable groups of people and people with different needs.

COMPETENCES	CONTENT	SUGGESTED ACTIVITIES
The learner:	Breastfeeding	Learners, using think-pair-
The learner	- What it is	share explain breast feeding
explains what	- Advantages and disadvantages to:	and bottle feeding.
breastfeeding is,	-Mother	Sharing their experiences on
its advantages	-Baby	breastfeeding (their own or
and	-Family	children they have observed
disadvantages.	Bottle-feeding	breastfeeding).
Explains what	- What it is	Telling folk stories related to
bottle-feeding is,	- Advantages and disadvantages to:	breastfeeding.
its advantages	-Mother	Telling myths about
and	-Baby	breastfeeding.
disadvantages.	-Family	Brainstorming on the
Identifies	The vulnerable groups and people	advantages and disadvantages
vulnerable	who need special care	of breastfeeding to; mother,
groups of	-Weaning babies	baby and family.
people.	-Sick	Explaining instances in their
• Explains	-Elderly	community when bottle
traditional	-Convalescents	feeding may be necessary.
customs and	-Breastfeeding	
their advantages		

COMPETENCES	CONTENT	SU	UGGESTED ACTIVITIES
to the	-Pregnant mothers and their unborn	•	Listing different vulnerable
community.	children.		groups of people and the food
	Food for the vulnerable and		they need.
	people who need special care	•	Sharing their experiences of
	- Soft drinks		caring for vulnerable persons
	- Soft foods		in their communities –
	- Balanced diet		identifying the specific
	Traditional customs and food		challenges in caring for them.
	taboos in communities	•	Debating on the customs and
	-Examples of food taboos; women should		food taboos in their
	not eat chicken, eggs and so on.		community.
	-Effects of food taboos in nutrition.	•	Using whole-class approach,
	Food consumption patterns in the		learners discuss on why
	community		vulnerable people need special
	-staple food of different communities		feeding.
	-other foods of different communities	•	In groups learners discuss how
			to care for people with special
			needs
		•	Under the guidance of the
			teacher, learners identify food
			consumption patterns of the
			communities.

- In small groups, learners demonstrate making foods for specific groups of vulnerable persons.
- In form of written tests, assess learners' competences about identifying vulnerable persons and foods for each group; advantages and disadvantages of breast feeding and bottle feeding.
- Organize a debate and assess learners' ability of effective communication on a topic about food taboos in their community (e.g. "women should not eat chicken").

THEME: HUMAN HEALTH

TOPIC 15: PRIMARY HEALTH CARE (PHC) (10 PERIODS)

Overview

Sanitation is topic 4, term two in the standard P.4 curriculum, and PHC is topic 4, term 3, in the P.5 standard curriculum. Both topics are under the theme "Human health". They have been merged because 'Sanitation and its importance' had not been covered when schools closed due to COVID 19 lockdown and to provide continuity. Under sanitation the learners are guided to appreciate and encouraged to grow good sanitation habits to protect themselves against germs and diseases. PHC on the other hand is set to broadly guide learners to explore and learn about the different elements and principles of PHC. The topic will support learners to carry out activities which aim at improving community hygiene and health of the people. The content on people who need special care and how to care for them has been left out because it has been shifted to be covered under the topic "Food and Nutrition".

COMPETENCES	CONTENT	SUGGESTED ACTIVITIES
The learner:	What sanitation is	Learners share their experiences of waste
• States what	• Importance of good	disposal in their communities.
sanitation is	sanitation in our	Making a tour around the school to identify
• Discusses the	environment	areas for disposal of waste, the toilets, the
importance of	 Germs and diseases 	urinals etc.
proper	- what they are	• Learners observe and record the uses of these
sanitation	- where they are	areas.
• Explain what	found	• Learners identify whether or not these areas
germs are	- how they are spread	are properly used.
• Discusses how	- the 4Fs germ path	• Show a video of the 4Fs germ pathway e.g.
the germs are	- How they cause	https://www.youtube.com/watch?v=YBGsoimP
spread	rotting	<u>XZg</u>
Describes the	Ways of protecting	• learners demonstrate ways of protecting
different ways of	against germs and	themselves against germs especially, proper
maintaining proper	diseases in the	hand washing procedures, smoking latrines,
sanitation	environment, school,	burning rubbish, spraying using insecticides,
• Describes what	on the way and in the	sweeping the compound.
PHC is, its	homes	• Using the whole class approach, learners
		describe ways diseases they are spread.

COMPETENCES	CONTENT	SUGGESTED ACTIVITIES
elements and principles. • Demonstrates activities of PHC in promotion of community hygiene. • Explains the responsibilities of individuals, families and the community in health promotion.	 Primary Health Care What it is Elements and principles of PHC Activities in PHC in promotion of community hygiene e.g. Rubbish and excreta disposal protecting water sources Responsibility of individuals, family, and community in health promotion. Suitable lifestyles 	 Making a visit to a health Centre to observe the PHC elements of immunization, treatment of diseases, family planning, and health education among others. Learners identifying the PHC practices in the health centre – these are also referred to as Elements. Using the field observations to define PHC – affordable, effective, socially acceptable, with community participation. Describing PHC, its elements and principles. Practicing activities of PHC in the school. Demonstrating the responsibilities of individuals, families, and community in health promotion.
in health	 Responsibility of individuals, family, and community in health promotion. 	individuals, families, and community in

- Set up projects within the school where learners take part in maintaining sanitation.
 Observe and record the success of these projects and the participation of individual learners in the projects.
- 2. Test learners understanding of how diseases are spread and importance of sanitation through written assessment.
- 3. Assess learners' ability to explain the concept of PHC and discuss the responsibilities of individuals, families, and community in the provision of PHC.
- 4. Assess learners' competences in preparing messages that promote PHC in schools.

P.6 INTEGRATED SCIENCE ABRIDGED CURRICULUM TERM 1

THEME: THE WORLD OF LIVING THINGS

TOPIC 1: BACTERIA AND FUNGI (15 PERIODS)

Overview

This is a topic for P.5 term 2 in the standard curriculum. It has been shifted to P.6 in the abridged curriculum because it had not been covered by the time schools closed due to the COVID 19 lockdown. The learners will be guided to understand that bacteria and fungi are germs but there are some which are harmful and others useful. The learners should be guided to demonstrate how to prevent, control and treat diseases caused by bacteria and fungi. Use videos where possible when teaching this topic. The teacher should organise more remedial lessons on this topic to enhance mastery and understanding of the concepts by the learners.

COMPETENCES	CONTENT	SUGGESTED ACTIVITIES
The learner:	Bacteria	Describing bacteria and
• Describes bacteria, where	- What they are.	fungi, where they are found
they are found and where	- Where they are found	and breed.
they breed.	- Where they breed	Identifying harmful and
• Describes characteristics o	- Harmful	harmless bacteria and fungi.
bacteria.	- Harmless/ useful	• Discussing ways of
• Discusses ways o	• Prevention, control and	preventing, controlling and
preventing, controlling and	treatment of bacterial	treating bacterial and fungal
treating bacterial diseases.	diseases	diseases.
Describes bacteria and fung	• Fungi	• Carry out field visits to
as harmless and harmfu	- What they are	rubbish pits and other dirty
organisms.	- Where they are found	places where bacteria can
Discusses ways of preventing	- Examples of	breed from.
and controlling bacterial and	- Harmful	• Use dramatization to
fungal diseases.	- Harmless/ useful	demonstrate prevention and
	- Uses of fungi (mushroom for	control of bacterial and
	food, moulds for penicillin	fungal diseases.
	drug, in brewing).	
	 Dangers of 	

COMPETENCES	CONTENT	SUGGESTED ACTIVITIES
	Prevention and control of	
	diseases causes caused by	
	fungi.	

Assess individual learner's ability to;

- Name forms of bacteria and fungi.
- State the uses of bacteria and fungi.
- Describe ways of preventing, controlling and treating bacterial and fungal diseases.
- Demonstrate good practices for prevention and control of bacterial and fungal disease.

THEME: THE WORLD OF LIVING THINGS

TOPIC 2: CLASSIFICATION OF ANIMALS (20 PERIODS)

Overview

This is topic 1 Term 1 in the P.6 standard curriculum and it has been maintained. This topic is meant to help learners to differentiate between animals which are vertebrates and invertebrates. The learners will classify the animals using their characteristics. The topic should be taught using child centred approaches like carrying out observations in the environment and naming the animals therein. The competences on "Caring and Protecting animals have been left out because it is part of environmental protection.

COMPETENCES		C	CONTENT		SUGGESTED ACTIVITIES	
Th	e learner;	•	Classification of vertebrates and	•	Carry out field visits to help	
•	Gives examples of		invertebrates.		learners observe different	
	vertebrates and		E.g., (i) Vertebrates; warm		vertebrates and invertebrates in	
	invertebrates		blooded (mammals and birds) and		the environment and let them	
•	Describes different		cold blooded (reptiles, fish and		record their findings.	
	classes of vertebrates		amphibians)	•	Use group work to let learners	
	and invertebrates.		(ii) Invertebrates; arthropods		classify different vertebrates	
•	Describes mode of		(insects, arachnids, myriapods,		and invertebrates according to	
	reproduction in		crustaceans), molluscs (snails and		their characteristics.	
	vertebrates and		slugs) and worms (flat worms,	•	Using whole class discussion,	
	invertebrates.		segmented worms and round		let learners discuss how the	
			worms).		different classes of vertebrates	

COMPETENCES	CONTENT	SUGGESTED ACTIVITIES
	Description of the different	and invertebrates reproduce
	classes of vertebrates and	feed and move.
	invertebrates according to their	• Learners in groups, write
	characteristics.	poems about the ways of caring
	Mode of reproduction in different	and protecting of the different
	classes of vertebrates and	classes of vertebrates and
	invertebrates.	invertebrates.

Assess individual learner's ability to;

- Differentiate between vertebrates and invertebrates.
- Classify different animals according to their characteristics.
- Mention examples of animals under the different classes of invertebrates.
- Describe the mode of reproduction and feeding of the different classes of vertebrates and invertebrates.

THEME: MATTER AND ENERGY

TOPIC 3: SOUND ENERGY (20 PERIODS)

This is topic 2 Term 1 in the standard P.6 curriculum and has been maintained. Learners should be guided to explore about the different sounds in their environment and how it is produced. Learners should be practically involved with hands on activities to produce and experiment with sound. Use of resource persons in musical instruments would be ideal for this topic.

COMPETENCES	CONTENT	SUGGESTED ACTIVITIES		
• Experiments on	Sound energy	• Learners carry out		
sound as a form or	-what it is	experiments on sound as a		
energy	• Sources of sound:	form of energy.		
• Identifies the	-natural and artificial,	• Individually, learners		
sources of sound.	• musical instruments	identify different sources of		
• Describes how	e,g	sound.		
sound travels in	-Percussion	• Using class discussion,		
different materials	-Wind	learners describe the		
• States the different	-String	movement of sound in		
ways through	• Pitch, frequency and	different materials.		
which sound is	volume of sound.			

CONTENT	SU	UGGESTED ACTIVITIES
How sound travels	•	In groups, learners discuss
• Echo:		different ways of
-what it is and its		producing, storing and
importance.		reproducing sound.
• How sound is produced,	•	With help of a resource
stored and reproduced.		person, learners experiment
• The human ear (the		production of sound with
structure and functions).		different materials in the
• Ways of caring for the		environment.
human ear.	•	Individually learners draw
		and label the structure of
		the human ear.
	•	Using think-pair-share
		learners state the functions
		of the human ear.
	•	Learners are tasked to carry
		out their own research on
		diseases and disorders of
		the human ear.
	•	Through brain storming,
		learners discuss ways of
		caring for the human ear.
	•	Using class discussion,
		teacher guides learners to
		compare the human ear
		with organs of hearing in
		other animals.
	•	Teacher guides learners in
		making a model of the
		human ear (individually).
	 How sound travels Echo: -what it is and its importance. How sound is produced, stored and reproduced. The human ear (the structure and functions). Ways of caring for the 	 How sound travels Echo: -what it is and its importance. How sound is produced, stored and reproduced. The human ear (the structure and functions). Ways of caring for the human ear.

- Assess each learner's competence in identifying different sources of sound.
- Assess each learner's competence in storing and reproducing sound.
- Assess each learner's competence to demonstrate how to care for the human ear.

- Assess learner's ability to demonstrate the variations of pitch in different classes of musical instruments.
- Assess learners' ability to make functional musical instruments.

THEME: THE HUMAN BODY

TOPIC 4: THE CIRCULATORY SYSTEM (10 PERIODS)

Overview

This is topic 3, Term 1 in the standard P.6 curriculum. In this topic, learners will be guided to explain how blood flows in the body, the functions of blood and importance of blood circulation. The learners will also identify the functions of the heart and blood vessels involved in blood circulation. Learners will be guided by use of models of the heart and blood vessels to avoid abstract learning. Content and competence about "Increasing amount of blood in circulation" and "HIV/AIDS and blood" have been merged with describing ways of preventing and managing diseases and disorders of the circulatory system.

COMPETENCES	CONTENT	SUGGESTED ACTIVITIES
The learner:	■ Blood circulation	 Describing blood circulation.
 Describes blood circulation. 	-what it is.	■ Drawing and labelling the heart.
■ Describes the structure and	Structure and functions of	■ Stating functions of the parts of
functions of the heart.	the heart	the heart.
Identifies blood vessels.	-parts of the heart.	■ Naming the blood vessels.
 Describes composition of blood. 	-functions of the parts of	■ Describing composition of
 Describes way of preventing and 	the heart.	blood.
managing diseases and disorders	■ Blood vessels:	■ Describing how to prevent and
of the circulatory system.	-veins and arteries attached	manage diseases and disorders of
	to the heart	the circulatory system.
	-capillaries	■ In groups, learners make a model
	■ Composition and	of the human heart showing the
	functions of blood:	major parts from local materials
	-Plasma.	with the guidance of the teacher.
	-Red blood cells	
	-White blood cells	
	-Platelets.	
	Diseases and disorders of	
	the circulatory system.	

1. Assess individual learner's competence in,

- Drawing and labelling the heart.
- Stating functions of the parts of the heart.
- Naming the blood vessels.
- Describing composition of blood.
- 2. Assess individual learner's ability to describe how to prevent and manage diseases and disorders of the circulatory system.

THEME: HUMAN HEALTH

TOPIC 5: FOOD AND NUTRITION (10 PERIODS)

Overview

This is Topic 3, Term 3 in the standard P.5 curriculum. It has been shifted to P.6, term 1 in this abridged curriculum because it had not yet been covered by the time schools closed due to COVID 19 lockdown. The content under this topic is intended to support learners' understanding of advantages and disadvantages of breastfeeding, bottle feeding, traditional customs and taboos. Learners will be guided to determine the importance of giving a balanced diet to vulnerable groups of people and people with different needs. The teacher should organise more remedial lessons for learners to grasp well this content.

COMPETENCES	CONTENT	SUGGESTED ACTIVITIES
The learner:	Breastfeeding	Sharing their experiences on
• The learner	- What it is	breastfeeding
explains what	- Advantages and disadvantages to:	Telling folk stories related to
breastfeeding is,	-Mother	breastfeeding.
its advantages	-Baby	• Telling myths about
and	-Family	breastfeeding.
disadvantages.	Bottle-feeding	Brainstorming on the
• Explains what	- What it is	advantages and disadvantages
bottle-feeding is,	- Advantages and disadvantages to:	of breastfeeding to; mother,
its advantages	-Mother	baby and family.
and	-Baby	Explaining instances in their
disadvantages.	-Family	community when bottle
	• The vulnerable groups and people	feeding may be necessary.
	who need special care.	

COMPETENCES	CONTENT	SUGGESTED ACTIVITIES
• Identifies	-Weaning babies	• Listing different vulnerable
vulnerable	-Sick	groups of people and the food
groups of people.	-Elderly	they need.
• Explains	-Convalescents	• Sharing their experiences of
traditional	-Breastfeeding	caring for vulnerable persons in
customs and	-Pregnant mothers and their unborn	their communities – identifying
their advantages	children.	the specific challenges in
to the	• Food for the vulnerable and people	caring for them.
community.	who need special care	Debating on the customs and
	- Soft drinks	food taboos in their
	- Soft foods	community.
	- Balanced diet	
	• Traditional customs and food	
	taboos in communities	
	-Examples of food taboos; women	
	should not eat chicken, eggs and so	
	on.	
	-Effects of food taboos in	
	nutrition.	

- In small groups, assess learners' ability to demonstrate how to prepare foods for specific groups of vulnerable persons in their communities.
- In form of written tests, assess learners understanding of the concept of vulnerable persons and foods for each group, advantages and disadvantages of Breast feeding and Bottle feeding
- Organize a debate and assess learners ability of effective communication on a topic about food taboos in their community (e.g. "women should not eat chicken")

HUMAN HEALTH

TOPIC 6: ALCOHOL, SMOKING AND DRUGS IN SOCIETY (10 PERIODS)

This is the last topic of Term 1 in the standard P.6 curriculum, and it has been maintained. In this topic, learners should be guided to explore the dangers of smoking, alcoholism, and drug dependence. You are advised to use examples in the society to guide learning.

COMPETENCES	CONTENT	SUGGESTED ACTIVITIES
The learner.	Alcohol and Alcoholism:	Learners mention different
 Describes alcohol and 	 What they are. 	kinds of alcohol
alcoholism.	 How alcohol is made. 	• Carry out experiments on
• Discusses factors that	- Factors that lead to	how alcohol is made.
lead to alcoholism,	alcoholism.	Dramatizing causes and
smoking, drug abuse and	• Effects of alcoholism to an	effects of factors
misuse.	individual, family and	alcoholism, smoking, drug
• States the effects of	community.	abuse and misuse.
alcoholism to an	•Smoking: – what it is. –	• Using Think pair share,
individual, family and	Factors that lead to smoking.	learners describe smoking.
community.	- Effects of smoking to an	• Using brainstorming,
 Describes smoking. 	individual, family and	learners mention effects of
• Mentions effects of	community.	smoking to an individual,
smoking to an individual,	• Drugs:	family and community.
family and community.	– What they are.	• Using Individualized
• Discusses the effects of	– essential drugs:	learning, learners discuss
drugs to an individual,	– What they are.	the effects of drugs to an
family and community.	-storage of drugs.	individual, family and
Identifies essential drugs.	- Characteristics (uses)	community.
• Mentions ways of storing	of essential drugs.	Identifying essential drugs.
drugs.	• Drug Abuse, Misuse and	Mentioning ways of storing
• States life skills to safe	Dependency – Factors	drugs. States life skills to
guard against alcoholism,	that lead to drug abuse/	safeguard against
smoking and drug	misuse and dependency –	alcoholism, smoking and
dependency.	Effects of drug abuse to	drug dependency.
• Participates in campaigns	an individual, family and	Participating in campaigns
against alcohol, smoking	community.	against alcohol, smoking
and drugs	Life Skills to Safeguard	and drugs used in their areas
	against Alcoholism,	Writing words, sentences
	Smoking and Drug	and stories about drugs,
	Dependence	drug abuse and misuse.
		Acting out a dialogue about
		life skills to safeguard
		against alcoholism,

COMPETENCES	CONTENT	SUGGESTED ACTIVITIES
		smoking and drug
		dependence.
		• Writing effective campaign
		messages against alcohol,
		smoking and drugs.
		• Describing drug abuse,
		misuse and dependence.

- 1. Assess individual learner's ability to:
 - List the effects of smoking and alcoholism to an individual, family and community.
 - Explain how essential drugs can be stored.
 - Describe the life skills to safeguard against alcoholism, smoking and drug dependence.
- 2. Assess individual learner's competence in writing and displaying campaign messages against smoking, alcoholism and drug dependence.

TERM II

THEME: THE WORLD OF LIVING THINGS

TOPIC 7: CLASSIFICATION OF PLANTS (12 PERIODS)

Overview

This is Topic 1, Term 2 in the standard P.6 curriculum and it has been maintained. In this topic, learners will be guided to classify plants from their immediate environment according to their characteristics. The content on flowering plants i.e. legumes and cereals was left out because it was handled in P.4. There is need for the teacher to use real plants from the immediate environment to enhance understanding and avoid abstract learning

COMPETENCES	CONTENT	SUGGESTED ACTIVITIES
The learner:	Non-flowering plants	Conduct a nature walk and
• Describes characteristic	-spores bearing plants	classify plants into
of flowering and non-	(mosses, ferns, lichens)	flowering and non-
flowering plants.	-conifers	flowering plants.
	-Algae	Identifying non-flowering
	Seed dispersal	plants

COMPETENCES	CONTENT	SUGGESTED ACTIVITIES
Classifies plants into	-mechanism	• As individuals, learners
flowering and non-	-agents	draw and label flowering
flowering.	-importance.	and non-flowering plants.
Names examples of non-	Plant propagation	• In small groups, learners
flowering plants and	-Seeds	describe the mechanisms of
flowering plants.	-suckers	seed dispersal.
• Label parts of the non-	-cuttings	• Describing plant
flowering plants and non-	-leaves	propagation for different
flowering.	-budding	plants.
• Describes the	-layering	• Learners make a simple
mechanisms of seed	-Marcotting	classification table using
dispersal.	-bulbs	real plants from the
• Describes plant		environment.
propagation.		
Participate in plant		
conservation activities		

- Assess individual learner's competence in using characteristics to classify flowering and non-flowering plants.
- Assess individual learner's competence in describing seed dispersal mechanisms.
- Assess individual learner's ability to demonstrate some of the different propagation methods.
- Assess individual learner's ability to participate efficiently in conservation of plants in the environment.

THEME: SCIENCE IN HUMAN ACTIVITIES AND OCCUPATIONS

TOPIC 8: OCCUPATIONS IN OUR COMMUNITY: CROP GROWING (10 PERIODS)

Overview

This is Topic 3, Term 2 in the standard P.5 curriculum. It has been shifted to P.6 in this abridged curriculum because it had not been completed when schools closed due to COVID 19 lockdown. In this topic the learners will be guided on how grow and care for common tuber crops in the community. Most of the activities should be done practically to enhance understanding and development of the intended knowledge, skills, and values.

COMPETENCES	CONTENT	SUGGESTED ACTIVITIES
The learner:	Common tuber crops	A field visit to the nearest
• Identifies the	- Root tubers e.g.	market to observe the
characteristics of common	-Sweet potatoes	common tuber crops sold in
tuber crops.	-Carrots	the market.
• Discusses ways of	-Cassava	• Identifying the common
growing and caring for	- Stem tubers e.g.	tuber crops.
tuber crops.	-Irish potatoes	Grouping tuber crops as root
• Identifies pests and	- white yams	tubers and stem tubers.
diseases of tuber crops.	• Growing and caring for tuber	• Discussing the ways of
• Describes the	crops	growing and caring for tuber
characteristics of common	• Common pests and diseases of	crops.
tuber crop pests and their	tuber crops	• Trapping and observing
effects on crops.	• Characteristics of common	some of the common pests
• Discusses methods of	tuber crop pests	of tuber crops.
controlling pests and	• Effects of pests and diseases on	• Describing the
disease of tuber crops.	tuber crops:	characteristics of common
• Describes ways of	-Rotting of tubers	tuber crop pests.
harvesting, processing and	-Holes on tubers and leaves	• Discussing the effects of
storing tuber crops.	-Leaf yellowing	pests and diseases on tuber
• Practices growing tuber	-Leaf curling	crops.
crops (project by the	• Methods of controlling pests	Demonstrating methods of
Young Farmer's Club).	and diseases of tuber crops.	controlling pests and
	• Harvesting, processing and	diseases of tuber crops.
	storage of tuber crops	• Describing ways of
	• Science oriented clubs	harvesting, processing and
	-Young farmers club	storing tuber crops.
		Practicing growing tuber
		crops as a project.
Assessment guidelines		

- 4. Assess individual learner's competence in naming the different types of tuber crops.
- 5. Assess each learner's ability in describing the ways of growing and caring for tuber crops.
- 6. Assess learners' ability in discussing the ways of harvesting, processing and storing tuber crops.

THEME: SCIENCE IN HUMAN ACTIVITIES AND OCCUPATIONS

TOPIC 9: KEEPING GOATS, SHEEP AND PIGS (12 PERIODS)

Overview

This is Topic 2, Term 3 in the standard P.5 curriculum. It has been shifted to P.6, term 2 in this abridged curriculum because it had not yet been covered by the time schools closed due to COVID 19 lockdown. The learners will be guided to use scientific knowledge and skills in keeping goats, sheep and pigs as a source of livelihood. The learners should be taken to visit nearby animal farms to observe the skills of keeping goats, sheep and pigs practically.

COMPETENCES	CONTENT	SUGGESTED ACTIVITIES
The learner:	Goats, sheep and pigs	Use field visits for learners to
• Identifies names of external	keeping	observe different farm animals.
parts of goats, pigs and sheep.	• External parts of goats,	Make learners to draw and
• Describes uses of goats, sheep	sheep and pigs.	label external parts of goats,
and pigs.	• Housing and	sheep and pigs.
• Discusses the causes, signs,	management of goats,	• In small groups let learners
symptoms, prevention and	sheep and pigs.	identify products got from
control measures of diseases in	• Products from goats,	goats, sheep and pigs.
goats, sheep and pigs.	sheep and pigs:	Using whole class discussion,
	- Meat	let learners describe housing
	- Skins	and management of goats,
	- Wool	sheep and pigs.
	- Milk	Let learners make research on
	• Diseases and	how to control parasites and
	parasites of	diseases of goats, sheep and
	goats, sheep	pigs.
	and pigs	Use videos to show different
	- Causes	animal rearing practices.
	- Signs and	
	symptoms	
	- Prevention and	
	control.	

Assessment guidelines

Assess individual learner's ability to;

- Describe the uses of a goat, a sheep and a pig.
- Identify the products got from goats, sheep and pigs.

• Discuss how to control the parasites and diseases of goats, sheep and pigs.

THEME: SCIENCE IN HUMAN ACTIVITIES AND OCCUPATIONS

TOPIC 10: KEEPING CATTLE (20 PERIODS)

Overview

This is topic 2 Term 2 in the standard P.6 curriculum. In this abridged curriculum, some of the competences have been left out or merged with others to cover for the lost time of learning. In this topic learners will be guided to build on the knowledge and skills which they already have on how to keep goats, sheep and pigs. Learners will be guided to keep cattle for commercial purposes, care for the cattle well to prevent pests and diseases. Learners will identify the products got from cattle and the products got from milk. Teachers are advised to take learners to nearby cattle farms or invite resource persons to talk to learners to consolidate the concept of keeping cattle.

COMPETENCES	CONTENT	SUGGESTED ACTIVITIES
	- Causes, spread,	and symptoms, prevention,
	signs/symptoms, prevention,	control, and treatment.
	control and treatment.	
	- Practices that harm cattle and	
	other domestic animals (in	
	transit, abattoir, in the field)	
	- Starting a livestock farm	

Assess individual learner's competence on;

- Naming the types of cattle
- Identifying the common breeds of cattle in the community.
- Describing different ways of grazing cattle.
- Naming milk products.
- 2. Assess each learner's ability to explain how to manage common cattle pests and diseases.

THEME: MANAGING CHANGES IN THE ENVIRONMENT

TOPIC 11: TYPES OF CHANGES – BIOLOGICAL, PHYSICAL AND CHEMICAL CHANGES (10 PERIODS)

Overview

This is topic 1Term 3 in the standard P.5 curriculum. It has been shifted to P.6 Term 2 in this abridged curriculum because it had not been taught by the time schools closed due to COVID 19 lockdown. In this topic, learners will be guided to understand the different changes in their environment. The learners will be guided to classify the changes under; Biological, Physical and Chemical. The learners will be encouraged to perform simple experiments on changes of matter. The teacher should organise more remedial lesson to enhance understanding of this topic by the learners.

COMPETENCES	CONTENT	SUGGESTED ACTIVITIES
The learner:	1. Types of Changes in the	Naming the different types
• Describes how changes	environment	of changes in the
take place in the	i. Biological changes	environment using outdoor
environment.	What they are	activities.
• Describes the different	Growth in plants and	• In small groups, learners
changes in the	animals.	classify the changes under
environment.		

COMPETENCES	CONTENT	SUGGESTED ACTIVITIES
Describes the different	Physical changes in	biological, physical and
effects/ consequences of	plants and animals	chemical.
various changes in the	• Managing body	Carrying out experiments
environment.	changes	on changes in states of
	-body care	matter.
	-guidance	
	ii. Chemical changes	
	What they are	
	-rusting	
	-fermentation	
	-respiration	
	-rotting and decaying	
	iii. Physical changes	
	What they are	
	Changes in weather	
	Changes in the	
	states of matter	
	-land slides	
	-earthquakes	
	Placement	
	faulting/volcanic	
	actions	
	2. Characteristics of various	
	types of changes in the	
	environment	
	3. Consequences of various	
	types of changes to people,	
	animals and plants	
	- Increases in size	
	- Increases in temperature	
	- Mountain formation	
	- Rain formation	
	- Change of state	
	- New things are formed	

COMPETENCES	CONTENT	SUGGESTED ACTIVITIES
	- Placement of things	

- Assess individual learner's competence in naming different changes that happen to living things.
- Assess each learner's competence in categorising the changes in the environment under:
 - i. Biological
 - ii. Physical
 - iii. Chemical
- Assess individual learner's ability to describe ways of managing different changes that happen in our environment.
- Assess each learner's ability to describe the effects of various changes in the environment.

THEME: THE ENVIRONMENT

TOPIC 12: RESOURCES IN THE ENVIRONMENT (10 PERIODS)

Overview

This is topic 3, Term 2 in the standard curriculum and it has been maintained. The topic provides an understanding of the resources in the environment. This is intended to create awareness of how valuable these resources are to living things so that the learners can appreciate them, take care of them, and use them sparingly for future generations to benefit as well.

COMPETENCES	CONTENT	Suggested Activities
The learner:	■ Non-Livings as Resources e.g.	• Through filed tour,
• identifies resources	soil, minerals, fuel, sun, water	learners identify
from living and non-	and air.	resources from living
living things	Living things as resources e.g.	and non-living things.
• Groups examples of	-plants: fibres, wood, food and	• In groups of four
resources under	medicine.	members, learners state
living and moon	-animals: meat, skins/hides,	examples of resources
living things.	horns, milk, honey, and	under living and non-
• Describes ways of	medicine.	living things, describe
harvesting resources.	Harvesting resources.	ways of harvesting
		resources.

COMPETENCES	CONTENT	Suggested Activities
• Participates in	How people make use of	Using music, dance and
campaigns for	available resources.	drama, learners
sustainable use of	• Renewable resources	participate in a
available resources	e.g. wind, water,	campaign for
in the environment.	sunshine and non-	sustainable use of
• Describes renewable	renewable	available resources in
and non-renewable	resources(minerals)	the environment.
resources.	• Caring for and	• Using brainstorming,
• Participates in	conserving of animal	learners describe
different ways of	resources	renewable and non-
conserving		renewable resources and
resources.		explain ways of caring
• Explains ways of		for animals as resources.
caring for animals as		• Practically, learners
resources.		participate in different
		ways of conserving
		resources.

- 1. Assess each learner's ability to identify resources from living and non-living things.
- 2. Assess each learner's ability to describe renewable and non-renewable resources and explain ways of caring for animals as resources.
- 3. Assess each learner's ability to participate in the campaign of conservation of resources.

THEME: THE HUMAN BODY

TOPIC 13: RESPIRATORY SYSTEM (10 PERIODS)

Overview

This is topic 4, term 2 in the standard P.6 curriculum and it has been maintained. The content under this topic gives an understanding of respiratory system, diseases and disorders of the system and the learner's role in preventing such disorders. It is significant for them to have such knowledge to appreciate the role of the respiratory system in their bodies, be able to avoid risky behaviour that compromise the health of the respiratory system and take part in the campaigns to promote awareness on such risky behaviour hence prevent diseases and promote health.

COMPETENCES	CONTENT	Suggested Activities
The learner:	Respiration	• In groups of four members,
• Identifies	- What it is	learners identify the parts
respiratory organs.	Respiratory organs	of the respiratory system
• Describes lungs and	Lungs and breathing	and describe lungs and
breathing.	 Respiration in relation 	breathing.
• Demonstrates an	to food and oxygen	• Guided by the teacher,
experiment on	Diseases and disorders	learners demonstrate an
human respiration.	of the system	experiment on human
• Identifies diseases	 Keeping the system in a 	respiration.
and disorders of the	healthy working	• Using brainstorming,
respiratory system.	condition	learners identify diseases
• Participates in		and disorders of the
campaigns to keep		respiratory system.
the system in a		• Using megaphones,
healthy working		learners participate in
condition.		campaigns to keep the
• Draws the		system in a healthy
respiratory organs		working condition.
		• Referring to a chart,
		learners draw the
		respiratory organs.

- 1. Assess each learner's competence to identify the respiratory organs and describe the lungs and the breathing process.
- 2. Assess each learner's competence to demonstrate an experiment on human respiration.
- 3. Assess each learner's competence to identify diseases and disorders of the respiratory system and actively engage in the campaign to create awareness.
- 4. Assess each learner's ability to draw and label the respiratory organs.

TERM III

THEME: SCIENCE IN HUMAN ACTIVITIES AND OCCUPATIONS

TOPIC 17: SCIENCE AT HOME AND IN OUR COMMUNITY (10 PERIODS)

This is Topic 2, Term 3 in the standard P.6 curriculum and it has been maintained. Learners should be guided to discuss activities that might benefit them and help to solve common problems. To remain healthy, we need clean and safe water for drinking and washing. Guide learners on how to prepare clean and safe water for drinking and washing. Use practical demonstrations in class to make learning meaningful, real and interesting. Making use of resource persons will be of great importance.

COMPETENCES	CONTENT	Suggested activities		
The learner.	• Preparation of	Carrying out experiments		
• Describes ways of	Clean and Safe	on different ways of		
preparing clean and	Water for Drinking	preparing clean and safe		
safe water for	and Washing:	water for drinking and		
drinking and	– boiling	washing.		
washing.	filtering	• Discussing ways of		
• Discusses ways of	treating	cleaning clothes in a home.		
cleaning clothes in a	distilling	Preparing clean and safe		
home.	decanting	water for drinking and		
• Participates in	 Water impurities 	washing.		
preparing clean and	– human wastes	Discuss what makes water		
safe water for	– animal wastes	unsafe		
drinking and	– pollutants from	Words and sentences about		
washing.	farm chemical	getting local salt from ash.		
• Constructs a simple	silt from erosion	Preparing clean and safe		
water purifying	• Cleaning Clothes in	water for drinking.		
system	a Home	Constructing a simple		
	– sorting	water purifying system.		
	– soaking			
	– washing			
	– rinsing			
	-wringing			
	– drying			
	– ironing			

Assessment guidelines

Assess individual pupil's ability to:

- Describe what safe drinking water is.
- Outline ways of preparing clean and safe water for drinking and washing.
- Describe the steps people should follow to clean clothes in a home.
- Carry out an activity on preparation of clean and safe water during science show/fair.

THEME: HUMAN HEALTH

TOPIC 16: ACCIDENTS AND FIRST AID (15 PERIODS)

Overview

The is Topic 2, Term 3 of standard P.6 curriculum and it has been maintained. This topic is intended to create awareness of the accidents that happen in day today situations and their respective first aid. The topic aims at promoting safety in schools, homes, on the roads and other means other transport and generally everywhere. It promotes vigilance and ensures health.

CO	OMPETENCES	C	ONTENT		Su	ggested Activities
Th	e learner:	•	Burns and scald		•	Working in groups, learners
-	Describes burns and	•	Fever a	and		describe what burns and scalds
	scalds.		convulsions:			are.
-	Describes near		-what they are		•	Using case scenarios/
	drowning.		-causes,			storytelling, the teacher guide
-	Describes causes of		prevention a	and		learner into telling their own
	fainting, and how to		first aid			stories about near drowning,
	give first aid.	•	Near drowning:			fainting, and how first aid can be
-	Mentions causes,		-what it is			offered in either situation.
	prevention and first		-causes,		•	Using brainstorming, the
	aid for near drowning.		prevention a	and		learners state the causes,
-	Identifies foreign		first aid.			prevention and first aid for near
	bodies in the passage.	•	Fainting:			drowning and fainting.
-	Participates in		-causes,		•	Using pictorial / image
	activities which		conditions a	and		interpretation, the learners in
	prevent accidents.		first aid.			groups of four members identify
-	Gives effective first	•	Foreign bodies	in		foreign bodies in various
	aid to burns, fevers,		passages (mou	ıth,		passages.
	fainting and removal			ius,	•	Learners dramatize how to
	of foreign body			and		prevent accidents.
			vagina):			•

COMPETENCES	CONTENT	Suggested Activities
	-first aid	• Using demonstration, learners
		pair up with members of the
		same sex to give effective first
		aid to burns, fevers, fainting and
		removal of foreign body

- 1. Assess each learner's ability to describe different forms of accidents, and their causes.
- 2. Assess each learner's competence to offer effective first aid in case of fainting or near drowning.

THEME: HUMAN HEALTH

TOPIC 14: PRIMARY HEALTH CARE (PHC) (10 PERIODS)

Overview

This is the last Topic in the standard P.5 curriculum. In this abridged curriculum, it has been shifted to P.6 Term 3 because it had not been taught by the time of the lockdown due to COVID 19. In this topic, the learners will be guided to carry out activities which aim at improving community hygiene and health of the people. The content on people with special care and how to care for them has been left out because it has been shifted to be covered under the topic "Food and Nutrition". There is need for the teacher to organise more remedial lessons on this topic for proper mastery of the topic by the learners.

COMPETENCES	CONTENT	SUGGESTED ACTIVITIES
The learner:	Primary Health Care	• Making a visit to a health
• Describes what PHC is, its	- What it is	Centre to observe the PHC
elements and principles.	- Elements and principles	elements of immunization,
• Demonstrates activities of	of PHC	treatment of diseases, family
PHC in promotion of	Activities in PHC in	planning, and health education
community hygiene.	promotion of	among others.
• Explains the responsibilities	community hygiene e.g.	• Earners identifying the PHC
of individuals, families and	- Rubbish and excreta	practices in the health centre –
the community in health	disposal	these are also referred to as
promotion.	- protecting water	Elements.
	sources	

COMPETENCES	CONTENT	SUGGESTED ACTIVITIES
	• Responsibility of	• Using the field observations to
	individuals, family and	define PHC - affordable,
	community in health	effective, socially acceptable,
	promotion.	with community participation
	• Suitable lifestyles and	• Describing PHC, its elements
	good health practices.	and principles.
		• Practicing activities of PHC in
		the school.
		• Demonstrating the
		responsibilities of individuals,
		families and community in
		health promotion.

- 5. Using a written test, assess learners' ability to explain the concept of PHC and discuss the responsibilities of individuals, families and community in the provision of PHC.
- 6. Using the project method, observe and assess learners' competence in establishing PHC projects in the school.
- 7. Assess individual learners' ability to prepare messages that promote PHC in schools.

THEME: HUMAN HEALTH

TOPIC 15: SANITATION ((15 PERIODS)

Overview

This is Topic 3, Term 3 in the standard P.6 curriculum and has been maintained. The topic provides learners with an understanding of the whole concept of sanitation with an intention to equip learners with skills to take care of their environment, and maintain its cleanliness to avert possible disease outbreaks such as cholera, diarrhoea, dysentery and many others.

COMPETENCES	CONTENT	Suggested Activities
The learner:	• Toilets and	• In groups of four
 Identifies toilets, latrines and 	Latrines:	members, learners
potty.	-what they are	identify and explain
Name types of latrines.	• The VIP latrine and	different toilets and
 Describes the importance of 	Ecosan	latrines.
using a latrine /toilet correctly.		

COMPETENCES	CONTENT	Suggested Activities
 Demonstrates proper use of 	Conventional	Teacher asks a volunteer to
latrines and toilets.	(ordinary) Latrine	demonstrate proper use of
 Draws the different types of 	and Potty	latrines and toilets.
latrines.	-characteristics and	• Using guided questions,
 Uses local resources to make 	differences	learners brainstorm on the
tools for cleaning latrines and	• The water closet	importance of using a toilet
toilets.	/borne toilets	or a latrine.
 Participates in maintaining the 	• Proper use and	
cleanliness of latrines and	maintenance of	Referring to a chart or a
toilets.	toilets and latrines.	textbook, the learner draws
		the different types of
		toilets.
		• In pairs, learners use
		locally available resources
		to make cleaning tools
		such as brooms, scrubbing
		brushes, cobweb remover
		and others.
		• In turns, each learner gets
		an opportunity to clean the
		toilet during the term.

- 1. Assess each learner's competence in identifying toilets and latrines and describing their proper use.
- 2. Assess each learner's ability to maintain the toilet/latrine clean.
- 3. Assess each learner's practical ability to make cleaning tools.

THEME: HUMAN BODY

TOPIC 18: REPRODUCTIVE SYSTEM (20 PERIOD)

Overview

This is the last Topic in the standard P.6 curriculum and it has been maintained. Content under this topic provides an understanding of the reproductive system, reproduction, primary and secondary sexual characteristics, and issues of teenage pregnancy and how they can be prevented. This topic is critical as it addresses the process of procreation, growth and development, and socio-cultural challenges such as teenage pregnancy. It provides awareness of sexuality, respect for one another, reproductive health rights and promotes freedom from sexual violence.

COMPETENCES	CONTENT	Suggested activities
The learner:	• Growth and	• In groups, learners describe the
Describes growth	Development in	process of growth and
and development in	human beings	development in human, identify
human beings	• Puberty and	primary and secondary sexual
Identifies primary	Adolescence	characteristics and
and secondary sex	-what they are	 Describe social and emotional
characteristics	• Primary and	changes in relation sexuality.
 Describes social and 	secondary sex	• Learners watch a video (where
emotional changes	characteristics	available) on reproductive
Describes	Social and emotional	organs and cells in human males
reproductive organs	changes	and females, after watching,
and cells in human	Reproductive organs	learners in manageable groups
males and females	and cells (male and	to;
Discusses	female)	Discuss the process of
fertilisation,	Fertilisation,	fertilisation, conception and
conception and	conception and	pregnancy in humans.
pregnancy in	pregnancy	In pairs, learners prepare
humans	Reproductive health	effective messages on
Prepares effective	-problems in	reproductive health; they discuss
messages on	pregnancy	the challenges of teenage
reproductive health	-teenage pregnancy:	pregnancy as well as the
Mentions problems	meaning and	consequences.
in pregnancy	consequences.	 Teacher works with the school
		nurse/ senior woman and senior

COMPETENCES	CONTENT	Suggested activities
Discusses	Care for reproductive	man to demonstrate proper ways
consequences of	organs	of caring for reproductive
teenage pregnancy	Common diseases and	organs.
 Demonstrates proper 	disorders of system	• Through brainstorming, learners
and mentions ways	(STI's)	identify diseases and disorders of
of caring for	Family planning	the system, describes the
reproductive organs	-Importance, methods	importance of family planning,
 Identifies diseases 	(natural and	uses, methods and family
and disorders of the	artificial), myths and	spacing, discuss the myths and
system	misconceptions about	misconceptions about family
Describes the	family planning	planning
importance of family	-Child spacing	• Draws the reproductive systems
planning, uses,	-PIASCY (messages	for both males and females.
methods and family	about reproductive	• Write reproductive health
spacing	health)	messages to peers in campaign to
 Discusses myths and 		control and prevention of
misconceptions		teenage pregnancies and its
about family		consequences.
planning		
• Draws the		
reproductive organs		

- 1. Assess each learner's competence to describe the process of growth and development in human, identify primary and secondary sexual characteristics and describe social and emotional changes in relation sexuality.
- 2. Assess the ability of each learner to describe the reproductive organs and cells in human males and females.
- 3. Assess the ability of each learner to describe the process of fertilisation, conception and pregnancy in humans.
- 4. Assess the ability of each learner to prepare an effective message on reproductive health.
- 5. Assess the ability of each learner explain the challenges of teenage pregnancy as well as the consequences.

PRIMARY SEVEN INTEGRATED SCIENCE ABRIDGED SYLLABUS TERM ONE

THEME: HUMAN HEALTH

TOPIC:1 SANITATION (10 PERIODS)

Overview

This topic is meant for P.6, Term 3 in the standard curriculum, however, it has been extended to P.7, Term 1 given the P.6 curriculum was not yet complete before the COVID-19 lockdown set in. The topic provides learners with an understanding of the whole concept of sanitation with an intention to equip learners with skills to take care of their environment, and maintain its cleanliness to avert possible disease outbreaks such as cholera, diarrhoea, dysentery and many others. The teacher should organise a lot of remedial lessons on this topic to enhance understanding of the concepts well by the learners.

COMPETENCES	CONTENT	Suggested Activities
The learner:	• Toilets and Latrines:	-In groups of four members,
 Identifies toilets, latrines 	-what they are	learners identify and explain
and potty.	• The VIP latrine and	different toilets and latrines.
 Names types of latrines. 	Ecosan	-Using guided questions,
 Describes the importance 	• Conventional (ordinary)	learners brainstorm on the
of using a latrine /toilet	Latrine and Potty	importance of using a toilet or
correctly.	-characteristics and	a latrine.
 Demonstrates proper use of 	differences	-Teacher asks a volunteer to
latrines and toilets.	The water closet /borne	demonstrate proper use of
 Draws the different types 	toilets	latrines and toilets.
of latrines.		-With the help of a chart or a
 Uses local resources to 		textbook, the learner draws the
make tools for cleaning		different types of toilets.
latrines and toilets.		-In pairs, learners use locally
 Participates in maintaining 		available resources to make
the cleanliness of latrines		cleaning tools such as brooms,
and toilets		scrubbing brushes, cobweb
		remover and others.
		-In turns, each learner gets an
		opportunity to clean the toilet
		in the course of the term.

- 1. Assess each learner's competence in identifying toilets and latrines and describing their proper use.
- 2. Assess each learner's ability to maintain the toilet/latrine clean.
- 3. Assess each learner's practical ability to make cleaning tools that can be used for cleaning toilets/latrines from local materials.

THEME: SCIENCE IN HUMAN ACTIVITIES AND OCCUPATIONS TOPIC 2: SCIENCE AT HOME AND IN OUR COMMUNITY (10 PERIODS)

Overview

This topic on Science at Home and in Our Community is meant for P.6, Term 3 in the standard curriculum; however, it has been extended to P.7, Term 1 given the P.6 curriculum was not yet complete before the COVID-19 lockdown set in. The topic is critical in developing insights in biotic and abiotic components of the environment. With such knowledge, learners are expected to respect nature, to be innovative and utilize available resource sustainably.

COMPETENCES	CONTENT	Suggested Activities
The learner:	■ Preparation of Clean	Using experimentation method,
 Describes ways of 	and safe water for	the teacher facilitates learners to
preparing clean and safe	drinking and washing	prepare clean and safe water for
water for drinking and	-boiling	drinking and washing.
washing.	-filtering	■ In groups of four members,
 Discusses the steps 	-treating	learners discuss the steps taken
taken when cleaning	-distilling and	when cleaning clothes in a
clothes in a home.	decanting.	home.
 Participates in preparing 	• Water	■ Following a procedure provided
clean and safe water for	impurities	by the teacher, learners in
cleaning and washing	-human wastes	groups of four members,
clothes.	-animal wastes	construct a simple water
Constructs a simple	-pollutants from	purification system.
water purifying system	farm chemical	
using local materials in	-silt from erosion	
their areas.	Cleaning clothes	
	in a home.	
	-sorting	

-soaking	
-washing	
-rinsing.	
-wringing	
-drying	
-ironing	

- 1. Assess each learner's ability to prepare clean and safe water for drinking and washing.
- 2. Assess each learner's competence to describe steps taken when cleaning clothes.
- 3. Assess each learner's competence to construct a simple water purification system.

THEME: HUMAN HEALTH

TOPIC 3: ACCIDENTS AND FIRST AID (12 PERIODS)

Overview

The topic on accidents is in Term 3 of P.6 standard curriculum, however, due to the abrupt COVID-19 pandemic lockdown, this topic had not been covered. Therefore, it should be covered in P.7, Term 1 and it is intended to create awareness the accidents that happen in day today situations and their respective first aid. The topic aims at promoting safety in schools, homes, on the roads and generally everywhere. It promotes vigilance and ensures health. There is need for remedial lessons for learners to master the topic very well.

COMPETENCES	CONTENT	Suggested Activities
The learner:	Burns and scalds	• In groups of four members,
 Describes burns and 	Fever and	learners describe what burns and
scalds.	convulsions:	scalds are.
 Describes near 	-what they are	Using case scenarios/
drowning.	-causes, prevention	storytelling, the teacher guide
 Describes causes of 	and first aid	learner into telling their own
fainting, and how to	Near drowning:	stories about near drowning,
give first aid.	-what it is	fainting, and how first aid can
 Mentions causes, 	-causes, prevention	be offered in either situation.
prevention and first	and first aid.	• Using brainstorming, the
aid for near drowning.	• Fainting:	learners state the causes,
 Identifies foreign 	-causes, conditions	prevention and first aid for near
bodies in the passage.	and first aid.	drowning and fainting.

COMPETENCES	CONTENT	Suggested Activities
 Participates in 	Foreign bodies in	Using pictorial / image
activities which	passages (mouth,	interpretation, the learners in
prevent accidents.	nose, ears, anus,	groups of four members identify
 Gives effective first 	eyes, throat and	foreign bodies in various
aid to burns, fevers,	vagina):	passages.
fainting and removal	-first aid	Learners dramatize how to
of foreign body		prevent common accidents.
		Using demonstration, learners
		pair up with members of the
		same sex to give effective first
		aid to burns, fevers, fainting and
		removal of foreign body

- 1. Assess each learner's ability to describe different forms of accidents, and their causes.
- 2. Assess and record as learners demonstrate ways of preventing cases of accidents at home
- 3. Assess each learner's competence to offer effective first aid in case of fainting or near drowning.

THEME: THE HUMAN BODY

TOPIC: MUSCULAR AND SKELETAL SYSTEMS (17 PERIODS)

Overview

This topic is for Term 1, P.7 in the standard curriculum. The topic on Muscular and Skeletal System provides an understanding of different types of muscles, the skeletal system, their functions to the human beings, disorders and their prevention. Such knowledge is critical to learners to appreciate the role these systems play in their lives, be able identify the disorders in case they or their neighbours suffer from them and to be able to take necessary precaution to prevent such disorders.

COMPETENCES	CONTENT	Suggested Activities	
The learner;	Muscular and skeletal	 In groups, learners are guided to 	
 Identifies different 	systems	identify the different bones and	
bones and muscles	 Structure of the 	muscles of the human body,	
of the human body.	human skeleton	identify the different joints found	

COMPETENCES	CONTENT	Suggested Activities
 Identifies different 	 Names of different 	in the human body and discuss the
joints found in the	bones	functions of the muscular skeletal
human body.	Joints	system.
 Discusses functions 	- Movable joints	Learners are tasked to research
of the muscular	(hinge, ball and	either from textbooks or from
skeletal system.	socket, pivot	resource persons in their
 States disease and 	and gliding	communities about diseases and
disorders of the	joints)	disorders of the bones, muscles
bones, muscles and	- Immovable	and ways of preventing those
the system.	joints (skull)	diseases and disorders and
Explains ways of	Muscles	thereafter submit a report.
preventing skeletal	-Voluntary muscles	Teacher demonstrates correct
and muscular	-Involuntary	body postures, which should be
diseases.	muscles	experimented by each learner.
Demonstrates	 Functions of the 	 In pairs, learners describe good
correct body	muscular and	health habits for the skeletal and
postures.	skeletal system	muscular systems.
 Describes good 	 Diseases and 	Each learner refers to the chart to
health habits for the	disorders of bones,	draw and label the skeleton and
system.	muscular and the	voluntary muscle.
Draws and labels	skeletal system.	
the skeleton and	Prevention of the	
voluntary muscle.	diseases and	
	disorders of the	
	muscular system	
	 Importance of 	
	correct posture.	
	 Health habits that 	
	help to keep the	
	system in a healthy	
	working condition	

- 1. Assess each learner's competence to identify different bones, joints and muscles of the human body.
- 2. Assess each learner's competence to discuss the functions of the muscular skeletal system.
- 3. Assess each learner's competence to demonstrate the correct body postures and
- 4. Describe good health habits for the system.
- 5. Assess each learner's ability to draw and label the parts of a human skeleton correctly.

THEME: THE HUMAN BODY

TOPIC 5: RESPIRATORY SYSTEM (10 PERIODS)

Overview

This topic on Respiratory system would be for P.6, Term 2 in the standard curriculum; however, it has been extended to P.7, Term 1 given the P.6 curriculum was not yet complete before the COVID-19 lockdown set in. The content under this topic gives an understanding of respiratory system, diseases and disorders of the system and the learner's role in preventing such disorders. It is significant for them to have such knowledge to appreciate the role of the respiratory system in their bodies, be able to avoid risky behaviour that compromise the health of the respiratory system and take part in the campaigns to promote awareness on such risky behaviour hence prevent diseases and promote health.

COMPETENCES	CONTENT	Suggested Activities
The learner:	Respiration	In groups of four members,
• Identifies	- What it is	learners identify the parts of the
respiratory	 Respiratory organs 	respiratory system and describe
organs.	Lungs and breathing	lungs and breathing.
• Describes	Respiration in relation	Guided by the teacher, learners
lungs and	to food and oxygen	demonstrate an experiment on
breathing.	Diseases and disorders	human respiration.
• Demonstrates	of the respiratory	Using brainstorming, learners
an experiment	system	identify diseases and disorders
on human	Keeping the respiratory	of the respiratory system.
respiration.	system in a healthy	Using megaphones, learners
• Identifies	working condition	participate in campaigns to keep
diseases and		the system in a healthy working
disorders of the		condition.

COMPETENCES	CONTENT	Suggested Activities
respiratory		Referring to a chart, learners
system.		draw the respiratory organs
• Participates in		
campaigns to		
keep the		
system in a		
healthy		
working		
condition.		
• Draws the		
respiratory		
organs		

- 1. Assess each learner's competence to identify the respiratory organs and describe the lungs and the breathing process.
- 2. Assess each learner's competence to demonstrate an experiment on human respiration.
- 3. Assess each learner's competence to identify diseases and disorders of the respiratory system and actively engage in the campaign to create awareness.
- 4. Assess each learner's ability to draw and label the respiratory organs.

THEME: HUMAN BODY

TOPIC 6: REPRODUCTIVE SYSTEM (20 PERIOD)

Overview

This topic on Reproductive system would be for P.6, Term 3 in the standard curriculum; however, it has been extended to P.7, Term 1 given the P.6 curriculum was not yet complete before the COVID-19 lockdown set in. Content under this topic provides an understanding of the reproductive system, reproduction, primary and secondary sexual characteristics, and issues of teenage pregnancy and how they can be prevented. This topic is critical as it addresses the process of procreation, growth and development, and socio-cultural challenges such as teenage pregnancy. It provides awareness of sexuality, respect for one another, reproductive health rights and promotes freedom from sexual violence.

C	OMPETENCES	C	ONTENT	Su	ggested activities
Th	e learner:	•	Growth and	•	In groups, learners describe the
•	Describes growth		Development in		process of growth and
	and development in		human beings		development in human, identify
	human beings	•	Puberty and		primary and secondary sexual
•	Identifies primary		Adolescence		characteristics in humans.
	and secondary sex		-what they are	•	describes social and emotional
	characteristics	•	Primary and		changes in relation sexuality.
•	Describes social and		secondary sex	•	Discuss the process of
	emotional changes		characteristics		fertilisation, conception and
•	Describes	•	Social and emotional		pregnancy in humans.
	reproductive organs		changes	•	In pairs, learners writes effective
	and cells in human	•	Reproductive organs		messages on reproductive health
	males and females		and cells (male and		and discuss the challenges of
•	Discusses		female)		teenage pregnancy as well as its
	fertilisation,	•	Fertilisation,		consequences.
	conception and		conception and	•	With the help of the school
	pregnancy in		pregnancy		nurse/ senior woman and senior
	humans	•	Reproductive health		man, learners are guided on the
•	Prepares effective		-problems in		proper ways of caring for
	messages on		pregnancy		reproductive organs.
	reproductive health		-teenage pregnancy:	•	Through brainstorming, learners
•	Mentions problems		meaning and		identify diseases and disorders
	in pregnancy		consequences.		of the reproductive system,
•	Discusses	•	Care for reproductive		describes the importance of
	consequences of		organs		family planning, uses, methods
	teenage pregnancy	•	Common diseases		and family spacing, discuss the
•	Demonstrates		and disorders of		myths and misconceptions about
	proper and mentions		system (STI's)		family planning
	ways of caring for	•	Family planning	•	Draws the reproductive systems
	reproductive organs		-Importance, methods		for both males and females
•	Identifies diseases		(natural and		
	and disorders of the		artificial), myths and		
	system		misconceptions about		
•	Describes the		family planning		
	importance of				
					85

COMPETENCES	CONTENT	Suggested activities
family planning,	-Child spacing	
uses, methods and	-PIASCY (messages	
family spacing	about reproductive	
Discusses myths	health)	
and misconceptions		
about family		
planning		
Draws the		
reproductive organs		

- 1. Assess each learner's competence to describe the process of growth and development in human, identify primary and secondary sexual characteristics and describe social and emotional changes in relation sexuality.
- 2. Assess the ability of each learner to describe the reproductive organs and cells in human males and females.
- 3. Assess the ability of each learner to describe the process of fertilisation, conception and pregnancy in humans.
- 4. Assess the ability of each learner to prepare an effective message on reproductive health
- 5. Assess the ability of each learner explain the challenges of teenage pregnancy as well as the consequences.
- 6. Assess the ability of each learner demonstrate proper ways of caring for reproductive organs.

TERM TWO

THEME: THE HUMAN BODY

TOPIC 7: THE EXCRETORY SYSTEM (10 PERIODS)

Overview

This topic on excretory system is for P.7, Term 2 in the standard curriculum. It provides an understanding of the excretory system, disorders, and practices to keep it healthy. This content is critical and makes learners to appreciate the function of this system in human life,

be able to prevent diseases that affect it, and be part of the team that advocates for good behavial change.

COMPETENCES	CONTENT	Suggested activities
The learner;	Excretion	■ In groups of four members,
■ 1 describes	What it is	learners discuss the meaning
excretion	Excretory organs	of excretion, name different
■ 1 names different	■ The human skin	excretory organs in the
excretory organs in	■ Structure,	human body and tell the
the human body	function and care	function of the different
describes the	■ Diseases and	excretory organs in the
function of the	disorders of the skin	human body.
excretory organs in	■ Structure, function	 Through brainstorming, the
the human body	and care	learners name diseases and
names diseases and	(a) The urinary	disorders of the excretory
disorders of the	system (kidneys,	organs in the human body
excretory organs in	ureter and	and mention best practices of
the human body	bladder)	keeping the excretory system
 practices correct 	Structures,	healthy.
ways of keeping the	functions and	 Learners in groups make a
excretory system	care	comparison chart between
healthy	Diseases and	the excretory system and the
makes comparisons	disorders of	other natural environment or
between the	the kidney and	man-made systems.
excretory system	the urinary	In groups, learners act a
and the other	system	simple dialogue on how the
natural environment		excretory system works.
or man-made		 With the guidance of the
systems		teacher, learners model
		structures of the urinary
		system for display.

Assessment guidelines

1. Assess each learner's competence to describe excretion, its functions to the human body, name different excretory organs.

- 2. Assess the ability of each learner to name diseases and disorders of the excretory organs in the human body and mention best practices of keeping the excretory system healthy.
- **3.** Assess the ability of each learner to make a comparison between the excretory system and the other natural environment or man-made systems

THEME: MATTER AND ENERGY

TOPIC 8: LIGHT ENERGY (20 PERIODS)

Overview

The topic on light energy is for P.7, Term 2 in the standard curriculum. It provides an understanding of the light energy, its sources, how it travels, formation of shadows, reflection and refraction. The topic is critical in appreciating the effect of light on sight, various uses of light in nature, and its conservation for future generation.

COMPETENCES	CONTENT	Suggested activities
The learner;	Light	 Learners name the
1 names sources	What it is; Light as a form of	different sources of
of light	energy:	light,carry out
■ 1 experiments to	 Natural and artificial sources 	experiments to
investigate how	of light	investigate how light
light travels.	• How light travels:	travels and use
• 1 uses experiment	 Rays of beams of light 	experiment results to
results to describe	 Importance of light in the 	describe effects of
effects of	environment	different materials on
different materials	 Effects of different materials 	light.
on light	on market:	Learners with the help
investigates the	Transparent	of their teacher, carries
behaviour of the	Translucent	out an experiment to
light when it	Opaque	investigate the
interacts with	Shadows	behaviour of light on
different surfaces	Eclipse (solar and lunar)	different materials.
and objects	Reflection	By the guidance of the
describes how	What it is	teacher, learners find out
different shadows	 Laws of reflection 	how different shadows
are formed	Types of reflection	are formed (eclipse and
(eclipse and	 Characteristics of images 	images).
images)	formed by plane mirrors	• Guided by the teachers,
	Periscope	learners state the laws of

COMPETENCES	CONTENT	Suggested activities	
states the laws of	Pin-hole camera:	reflection and calculate	
reflection	 Characteristics of images 	simple problems on	
calculates simple	formed with pin-hole	reflection.	
problems on	camera	 Using experimentation, 	
reflection	 Refraction 	learners describe images	
describes images	■ What it is	formed by plane	
formed by plane	Principle of refraction	mirrors.	
mirrors	Effects of refraction	 Using brainstorming, 	
explains how	 Refraction through glass, 	learners explain how	
rainbows are	prism, spectrum	rainbows are formed.	
formed	 Dispersion of light 	 In groups and with the 	
carries out	■ The rainbow	guidance of the teachers,	
experiments to	Refraction through a	learners carry out	
investigate the	rectangular glass prism	experiments to	
effects of lenses	 Lenses 	investigate the effects of	
on beams of light	■ Types	lenses on beams of light.	
names parts of	Effects of lenses on beams	 With reference to the 	
lens camera	of light	chart, learners name	
describes the	■ The magnifying lens	parts of lens camera.	
working of the	 The lens camera 	 Referring to the text 	
human eye as an	Parts of the camera and their	books, learners in pairs	
optical organ	functions	describe the working of	
describes	 Characteristics of images 	the human eye as an	
different human	formed by the lens camera	optical organ, describe	
eye defects and	■ The human eye	different human eye	
their corrections	Structure, Parts and	defects and how they	
practices the	functions.	can be corrected, they	
correct care of the	 Characteristics of images 	practice how to	
human eye	formed by the eye	correctly care for their	
makes models of	 Comparison between the 	eyes.	
pin-hole camera,	eye and the lens camera	 In groups, learners make 	
periscope, lens	Eye defects and their	models of pin-hole	
camera and the	corrections.	camera, periscope, lens	
eye	 Diseases and disorders of the 	camera and the eye	
	human eye:		
	1	89	

COMPETENCES	CONTENT	Suggested activities
	Care for the human eye	

- 1. Assess each learner's competence to name the different sources of light and carry out experiments to investigate how light travels and use experiment results to describe effects of different materials on light.
- 2. Assess each learner's competence to practically investigate the behaviour of the light when it interacts with different surfaces and objects and describe how different shadows are formed.
- 3. Assess each learner's competence to state the laws of reflection and to calculate simple problems on reflection.
- 4. Assess each learner's ability to explain how rainbows are formed.
- 5. Assess each learner's competence to name parts of a lens camera and the functions of each part.
- **6.** Assess each learner's competence to describe the working of the human eye as an optical organ, describe different human eye defects and how they can be corrected.

THEME: MATTER AND ENERGY

TOPIC 9: ELECTRICITY AND MAGNETISM (20 PERIODS)

Overview

This topic is for P.7, Term 1 in the standard curriculum. It provides an understanding of electricity and magnetism, their importance in day-to-day lives, the electric circuit, dangers of electricity and safety precautions. The topic is critical in enhancing the knowledge of electricity as an alternative source of energy, and conservation of its sources for the future generation. It provides insights into the knowledge of magnets, magnetisation and demagnetisation with intention to be promote innovation, and effectively and efficiently use them apply

COMPETENCES	CONTENT	Suggested activities	
The learner;	Electricity	Guided by the teacher,	
 identifies sources 	■ What it is	learners brainstorm on	
and types of	-electricity as a form of	the sources, types of	
electricity	energy	electricity and carry out	
experiments with	-types of electricity (current,	experiments on static	
static electricity	static)	electricity.	
	 Sources of electricity 		

COMPETENCES		CONTENT		Suggested activities	
•	draws and labels		-dry cell	•	Referring to the chart,
	parts of electric	•	Conductors and insulators		learners draw and label
	circuit	•	Electric circuits (fuse, switch,		parts of electric circuit.
	discusses the		bulb)	-	In groups, learners
	importance of	•	Short circuits, causes and		discuss the importance
	electricity in solving		how to avoid them		of electricity in solving
	day to day problems	•	Importance of electricity in		day to day problems,
•	discusses the		solving everyday problems		discuss electricity and
	dangers and safety	•	Safety precautions in		magnetism in modern
	precautions in		handling electricity and		world of work, and the
	handling electricity		electrical appliances		dangers and safety
	and electrical	Ma	agnetism		precautions in handling
	appliances.		- Magnets		electricity and electrical
	identifies natural and		-magnetic materials		appliances.
	artificial magnets		-properties of magnets	•	In pairs, learners
•	demonstrates ways		- Types of magnets		identify the natural and
	of keeping		-Natural magnets		artificial magnets and
	temporary magnets		(lodestone and magnetite)		demonstrate ways of
	safe.		-Permanent magnets		making temporally
•	discusses the uses		- Making temporary		magnets.
	electricity and		magnets (induction,	•	Through virtual
	magnetism in		stroking, electricity)		experimentation,
	modern world of		- Electromagnets		learners learn about the
	work.		-Electric bell		process involved in
•	discusses the		- Electricity and		generation of electricity
	processes involved		magnetism in the modern		using a dynamo and
	the in generation of		world of work		they practice this
	electricity using a		- Generation electricity		thereafter.
	dynamo.		using a dynamo	•	Developing working
					models that use
					electricity, magnetism
					or both.
<u> </u>		l		1	

- 1. Assess each learner's competence to identify the sources and types of electricity and carry out experiments on static electricity.
- 2. Assess each learner's competence to draw and label parts of an electric circuit.
- 3. Assess each learner's competence to state the importance of electricity in solving day to day problems, and the dangers and safety precautions in handling electricity and electrical appliances.
- 4. Assess each learner's ability to identify the natural and artificial magnets and the ability to demonstrate ways of making temporally magnets.
- 5. Using the project method, assess learners' ability to develop working models that use electricity, magnetism or both

THEME: MATTER AND ENERGY

TOPIC 10: SIMPLE MACHINES AND FRICTION (20 PERIODS)

Overview

This topic is for P.7, Term 2 in the standard curriculum. It provides an understanding of machines, how they perform work and friction in the process of performing work. This knowledge is necessary for the learners to be able to identify which machine to solve a given task with the highest level of efficiency, and their effective maintenance.

COMPETENCES	CONTENT	Suggested Activities
The learner;	- Friction	-Through guided discovery,
states the meaning of	- What it is	learners state the meaning
friction	- Friction as a useful	of friction, the importance
states the importance	force	of friction and possible
of friction	- How to increase	effects of friction on matter.
investigates effects of	friction	- Learners in groups,
friction on matter	- Friction as a nuisance	describe simple machine,
 describes simple 	force	observe how different
machines	- How friction can be	simple machines work.
observes how	reduced	Describe different classes of
different simple	(a) The moment of a force	levers and describe the
machines work	The principle of	effect of force on a lever,
 describes different 	moments	demonstrate how pulleys
classes of levers	(b) M.A, VR and efficiency	and an inclined plane work,
	as applied to machines	

		Suggested Activities
■ models' simple i	. Mechanical	and carry out practical uses
machines using local	advantage of	of wedges.
materials	machines	-Each learner is tasked to
carries out	$M.A = \frac{Load}{Effort}$	model a simple machine
experiments with	,,	using locally available
different simple	$VR = \frac{Effort\ distance}{Load\ Distance}$	materials and describes how
machines		it is used.
 describes the effect of 	•	-Guided by the teachers,
force on a lever	$(E = \frac{Work\ output}{Work\ Input} \times$	learners calculate
demonstrates how an	100%	mechanical advantage
inclined plane	Simple machines	(M.A.) of machines.
carries out practical	What they are	-Through open book
uses of wedges	(definition)	research, learners in groups
calculates mechanical	examples	describe how screws are
advantage (M.A) of Lev	/ers	and how they work and
machines	What they are	share with the rest of the
 describes how screws 	Parts of a lever	class.
are and how they	Classes of levers	
work	e inclined plane	
	ppe/ramp)	
	edges (double and	
pulleys	lined planes)	
Scr	ews	
	Nature of screws	
	Uses of screws	
Pul	leys	
•	Single fixed	
•	Single movable	
-	One fixed and one	
	movable working	
	together	
Wh	neels and axles	
•	Examples	
Но	w they work	

- 1. Assess each learner's competence to state the meaning of friction, the importance of friction and possible effects of friction on matter.
- 2. Assess each learner's competence to manipulate various machines, describe simple machine, and different classes of levers.
- 3. Assess each learner's competence to calculate mechanical advantage (M.A.) of machines, and velocity ratio.

TERM THREE

THEME: THE ENVIRONMENT

TOPIC 11: INTERDEPENDENCE OF THINGS IN THE ENVIRONMENT (12PERIODS)

Overview

This topic is for P.7, Term 3 in the standard curriculum. It provides an understanding of the interdependence of things in the environment. This is intended to create awareness of the interrelationships so that the learners are able to appreciate nature and use it sustainably.

COMPETENCES	CONTENT	Suggested Activities
The learner;	Components of the environment	■ Through nature
- names the	(plants, animals, water bodies, air,	walk, learners
components of the	soils)	name the
environment	• Interdependence of plants and animals:	components of
- describes how the	Animals depend on plants	the environment,
components of the	Animals depend on other animals	describe how the
environment	Plants depend on animals	components of
benefit from each	Plants depend on other plants	the environment
other	 Interdependence of living things and 	benefit from each
- describes ways of	non-living things	other
caring for animals	Animals depend on non-living things	and describe ways of
- discusses the	(air, water, soil)	caring for animals.
importance of	Plants depend on non-living things	In groups,
agro-forestry	(air, water, soil)	learners discuss
- starts and	Non-living things are affected by	the importance of
manages a	living things	agro-forestry and

COMPETENCES	CONTENT	Suggested Activities
school/home	Agro-forestry:	start and manage
woodlot project	What agro-forestry is	a school/home
- demonstrates	Growing crops and trees together	woodlot project.
correct record	Rearing animals and growing crops on	 Through artistic
keeping	the same land	expression,
- initiates	Rearing and caring for animals,	learners illustrate
experiment to	growing crops and trees on the same	interdependence
illustrate	farm	of the different
interdependence	Importance of agro forestry	things in the
of the different	Care for trees in agro forestry	environment.
things in the	Proper harvesting of trees in agro-	
environment	forestry (pollarding, coppicing and	
	lopping)	
	Starting and managing a school/home	
	woodlot project	
	Record keeping	

- 1. Assess each learner's ability to name the components of the environment and describe how the components of the environment benefit from each other.
- 2. Assess each learner's ability to state the importance of agro-forestry.
- 3. Assess each learner's ability to start and manage a school/home woodlot project and be able to keep record.s

THEME: THE ENVIRONMENT

TOPIC 12: RESOURCES IN THE ENVIRONMENT-(10 PERIODS)

Overview

This topic is for P.6, Term 2 in the standard curriculum. However, it has been brought to P.7 and merged with energy resources in the environment should be covered in term 1 of P.7. The topic provides an understanding of the resources in the environment. This is intended to create awareness of how valuable these resources are to living things so that the learners are able to appreciate them, take care of them, use them sparingly for future generations to benefit as well.

COMPETENCES	CONTENT	Suggested Activities
The learner:	■ Non-Living things as	Through filed tour,
• identifies resources from	Resources e.g. soil,	learners identify
living and non-living	minerals, fuel, sun, water	resources from living
things	and air.	and non-living things
Groups examples of	Living things as resources	■ In groups of four
resources under living and	e.g.	members, learners state
moon living things.	-plants: fibres, wood, food	examples of resources
Describes ways of	and medicine.	under living and non
harvesting resources.	-animals: meat, skins/hides,	living things, describe
Participates in campaigns	horns, milk, honey and	ways of harvesting
for sustainable use of	medicine.	resources.
available resources in the	Harvesting resources.	Using music, dance and
environment.	How people make use of	drama, learners
Describes renewable and	available resources.	participate in a
non-renewable resources.	Renewable resources	campaign for
Participates in different	e.g. wind, water,	sustainable use of
ways of conserving	sunshine and non-	available resources in
resources.	renewable	the environment.
Explains ways of caring	resources(minerals)	Using brainstorming,
for animals as resources.	Caring for and	learners describe
	conserving of animal	renewable and non-
	resources	renewable resources
		and explain ways of
		caring for animals as
		resources.
		■ Practically, learners
		participate in different
		ways of conserving
		resources.
names different energy	Energy resources and their	■ Through
resources and their sources	sources	brainstorming,
discusses the importance of	• the sun as a major source	learners name
different energy resources	of energy in the	different energy
to people and the	environment (solar	resources and their
environment	energy)	sources and explain
		06

COMPETENCES	CONTENT	Suggested Activities
carries out simple	 energy resources from 	the importance of
experiments using energy	water (hydro, steam	different energy
from wind or steam	engines and tidal energy)	resources to people
describes how to make a:	energy resources from	and the environment.
biogas digester	fossil fuels (coal and	In groups of four
solar equipment	petroleum)	members, learners
initiates activities which	energy resources from	carry out simple
cause safe and sustainable	plants (biofuel, wood fuel,	experiments using
way of using energy	food and biogas from	energy from wind or
	plant residues)	steam.
	energy resources from	■ The teacher
	animals (animal energy	demonstrates how to
	and biogas from animal	make a biogas
	wastes)	digester and
	energy resources from	Solar equipment /
	wind (wind energy)	Leaners could visit the
	importance of energy	nearby biogas and solar
	resources	system to see how they
		work.
		■ The teacher guides
		learners to initiate
		activities which
		cause safe and
		sustainable way of
		using energy.

- 1. Assess each learner's ability to identify resources from living and non-living things.
- 2. Assess each learner's ability to describe renewable and non-renewable resources and explain ways of caring for animals as resources.
- 3. Assess each learner's ability to participate in the campaign of conservation of resources.
- 4. Assess each learner's ability to name different energy resources, their sources and the importance of different energy resources to people and the environment.
- 5. Assess each learner's ability to carry out simple experiments using energy from wind or steam.

6. Assess each learner's ability to start up an activity, which promote safe and sustainable way of using energy.

THEME: THE COMMUNITY, POPULATION AND FAMILY LIFE TOPIC 13: POPULATION AND HEALTH (12 PERIODS)

Overview

This topic is for P.7, Term 3 in the standard curriculum. It provides an understanding of population and health. It is necessary to cover this topic to create awareness of population dynamics and its relationship with health with participate in activities that promote a productive and healthy population.

COMPETENCES	CONTENT	Suggested Activities
The learner.	 Community health and social 	 In groups of four members,
Names types of	problems	learners name types of
common sicknesses	■ Types of common sickness in a	common sicknesses in a
in a home and	home and their causes	home and community and
community	 Controlling common sicknesses 	they describe causes of
describes causes of	in a home and community	such sicknesses.
common sicknesses	(merge this with types of	 Using brainstorming, state
in a home and	sicknesses)	examples of anti-social
community	 Community health and social 	behaviour and sexual
states examples of	problems among young people	deviations.
anti-social	 Anti-social behaviour 	 Learners in groups,
behaviour and	 Sexual deviations (bestiality, 	discuss the dangers of anti-
sexual deviations	homosexuality, masturbation,	social behaviour and
discusses dangers	oral sex, lesbians, incest)	sexual deviations and they
of anti-social	Ways of avoiding sexual	describe ways of avoiding
behaviour and	deviations (merge with sexual	sexual deviations.
sexual deviations	deviations)	 Through think pair and
describes ways of	 Activities to address health 	share, learners list
avoiding sexual	concerns	activities to address health
deviations	Health surveys	concerns
lists activities to	 Health education 	 Individually, each learner
address health	 Collecting information/data on 	collects vital statistics/
concerns	human population	information/data on a
demonstrates some	Demography on:	human population and
of the activities to		

COMPETENCES	CONTENT	Suggested Activities
address health	Housing information, available	health in their homes and
concerns	health services	neighbourhood.
collects	 Avoiding health and social 	
information/data on	problems	
a human population	 Activities of health clubs 	
and health in a		
home and		
community		
carries out		
demography		
(simple surveys) on		
housing		
information		

- 1. Assess each learner's ability to describe types of common sicknesses in a home and community and to describe causes of such sicknesses.
- 2. Assess each learner's ability to state common examples of anti-social behaviour and sexual deviations.
- 3. Assess each learner's ability to collects vital information/data on a human population and health in their homes and neighbourhood.