

## CURRICULUM AND ASSESSMENT POLICY STATEMENT GRADE R-5 FOR LEARNERS WITH SEVERE INTELLECTUAL DISABILITY

### **AGRICULTURAL STUDIES**

## GRADE 4-5

Curriculum and Assessment

Policy Statement Grade R-5

for learners with Severe

Intellectual Disability

2018 Orientation

Learning programme

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# SECTION 1 INTRODUCTION SECTION 2: INTRODUCTION TO AGRICULTURAL STUDIES

What is Agricultural Studies?

The subject teaches the learner:

- General farming/Agricultural Practices and specifically;
- Plant production

2.1

- Gardening (Horticulture)
- Animal Production
- Environmental Practices and
- Business Practices.

The subject provides the basis of the establishment of sustainable farming operations for the learner through the inclusion of a wide spectrum of competencies required by farmers in South Africa. Learners in this subject will gain knowledge and skills necessary for agricultural workers in mixed farming systems whereby enhancing the overall agricultural process and to gain opportunities to access local, national and international agricultural markets.

This subject reflects and addresses an urgent farming industry need to skill its workforce, to produce and maintain high quality farm workers and entrepreneurs in South Africa both now and in the future.

The skills and the content embedded in the skills are taught over two years in Grade 4 and three years in Grade 5. During each year in each grade all the topics are taught, and the teacher is allowed to adapt the difficulty level of the skills to the ability of the learner.

- 2.2 Topics to be studied in Agricultural Studies
- 2.2.1 General farming/Agricultural Practices
- 2.2.2 Plant production i.e. vegetables, fruit trees, herbs
- 2.2.3 Gardening (Horticulture) i.e. medicinal and indigenous plants, flowering plants
- 2.2.4 Animal Production i.e. poultry, small stock

#### 2.2.5 Environmental practices

2.2.6 Business Practices including entrepreneurial skills.

#### 2.3 Specific Aims:

The purpose of this subject is to allow new learners' access to the Primary Agricultural Sector with specific reference to Mixed Farming Systems. In Agricultural Studies the learners will study:

#### 2.3.1 Generic Farming/Agricultural Practices which aims to teach learners to:

- Apply safe and secure practices in the agricultural workshop and community
- Select, use and care for hand tools and basic equipment
- Demonstrate an understanding of soil preparation
- Demonstrate an understanding of composting and the benefits of adding organic enrichments to the soil
- Recognise requirements of water in plants
- Identify different methods of irrigation
- Identify and control of weeds, pests and diseases

#### 2.3.2 Plant Production which aims to teach learners to:

- Apply basic food safety practices
- Identify different crops
- Propagate plants from seeds and planting into open ground
- Planting a range of crops according to correct planning, spacing and depth of the plant material
- Irrigate crops to maintain a predetermined moisture content
- Harvest agricultural crops by using basic harvesting tools

#### 2.3.3 Horticulture which aims to teach learners:

- Health and safety in the horticulture industry
- To care for ornamental seedlings
- Plant and establish ornamental plants and trees from containers into open ground
- To understand basic permaculture principles

#### 2.3.4 Animal Production which aims to teach learners to:

- Identify the different breed
- Care for farm animals
- Recognise basic breeding behaviour of farm animals
- Apply basic animal husbandry practices
- Observe, handle and move farm animals
- Recognise defensive behaviour in animals
- Apply standard animal feeding procedures
- Harvest and process animal products
- Understand the process of slaughtering farm animals

#### 2.3.5 Environmental Practices which aims to teach learners to:

- Identify medicinal plants and food from the veld
- Recognise and control invasive plants
- Practically apply soil conservation
- Understand indigenous knowledge using earth signs to plant and harvest
- Comprehend the effect of natural disasters
- Harvest water and understand indigenous knowledge about water

#### 2.3.6 Business practices which aims to teach learners to:

- Apply basic skills in storage and stock taking
- Understand basic costing (income/expenditure)
- Execute entrepreneurship in agriculture

#### 2.4 Requirements for Agricultural Studies as a subject

#### 2.4.1 Time Allocation

The compulsory instructional time for the Vocational Learning Programme for learners experiencing severe intellectual disabilities amounts to 8 hours per 5-day cycle. Schools may offer either three (3) or four (4) vocational subjects, depending on the number of learners in the school and the resources available. The compulsory instructional time for **Agricultural Studies** is either:

• 2 hours per 5-day cycle plus three (3) other vocational subjects or

• 2,5 hours per 5-day cycle plus two (2) other vocational subjects.

Twenty percent (20%) of the above mentioned time is utilized to teach subject content which should be embedded in teaching the learners to execute the skills. This implies that theoretical lessons should not be instructed in isolation, but during the teacher's demonstration that takes place before the learners practise the skills. The learners are required to utilize eighty percent (80%) of the time to practise the various skills in the classroom. The Agricultural Studies periods should be divided into two (2) timeslots.

#### 2.5 Resources

Learners must have the following resources:

- 1 x A4 file or exercise book
- Stationery; pen, pencil, ruler, etc.

An appropriately qualified teacher registered with SACE in line with the Collective Agreement 5 of 2001 is required to teach Agricultural studies.

#### 2.5.1 Infrastructure

- Classroom to accommodate 15 learners with a storeroom or garden shed to store gardening tools and animal feed
- Storage facility potentially hazardous chemical and all machinery and equipment must be stored securely (consumable equipment, petrol/diesel and hand/power tools, must be locked away with no access to learners)
- Available land to cultivate and/or land for grazing

#### 2.5.2 Equipment

To teach 15 learners the following minimum infrastructure and equipment is required:

• Safety equipment: masks - 15

safety goggles - 15

helmets - 15

Signage: Warning signs/safety rules (required by Health and Safety act) and information signage must be displayed on posters in the workshop, e.g. to label seed beds

• Protective clothing: gloves - one per learner

boots - one pair per learner

overalls - one per learner

• Consumables: seeds/seedlings

seed trays/potting bags

potting soil/compost/topsoil

animal drench – dewormer for endo-parasites

animal dip - for ecto-parasites

fuel and two-stroke fuel mix – for generator, lawnmower, weedeater, bakkie chainsaw bars and chains as needed

- Livestock: as needed according to region
- Basic hand tools: spades 10

forks - 10

rakes - 10

Optional extras: hoes

watering cans - 4

planting lines – 4 (can be made with available material)

wheelbarrows - 4

hosepipe – 2 x 30m

irrigation systems

spray pumps (knap sack) - 4

- pruning shears 10
- wire pullers 2
- Power tools: petrol lawnmowers 2

brush cutter (weed eater) -2

drill – 1

generator - to operate power tools if in the field

- Basic maintenance tools, e.g. screw drivers, hammers, pliers and spanner (Gedore) set to do repair work
- Transport: bakkie and tractor for moving produce/animals (these vehicles are only necessary if farming on large scale)

#### 2.5.3 Finances

Agriculture is a subject that requires ongoing financial support and regular resourcing for the purpose of completion of practical tasks and work to be carried out. Resourcing could be subdivided into the following categories:

- Safety equipment
- Protective clothing
- Consumables

- Livestock
- Tools and equipment
- Power tools
- Maintenance tools
- Vehicles 1 x bakkie
  - 1 x tractor
  - (these vehicles are only necessary if farming on large scale)

The school must provide a budget for maintenance of all tools and to purchase the following consumable resources as needed.

#### 2.5.4 Stock Control

The teacher is responsible for the stock, and will keep the storeroom/classroom locked at all times when not present in the storeroom/classroom.

Annual stock control is essential and should be undertaken at the last week of each year.

A stock inventory must be maintained by the teacher and verified annually by a Senior Management Team member.

#### 2.6 Career opportunities

The learners' knowledge and skills enables him/her to fulfil the following career opportunities:

- Work for a garden service
- Work in private gardens
- Work as general worker within agricultural sector
- Emerging small scale farmer
- Small/micro entrepreneur

#### 3 SECTION 3:

#### **OVERVIEW OF TOPICS PER TERM AND ANNUAL TEACHING PLANS**

Each week has a compulsory contact time of 2 or 2,5 hours (depending on the number of vocational subjects offered at the school) for the subject **Agricultural Studies**.

#### 3.1 Content overview of topics

The content is embedded in the skills and the learners should execute the skills in a simulated working environment recreated in the classroom/centre. The table below indicates the topics and content in the **Agricultural Studies** learning programme in grade 4 and 5 with differentiation

ТОРІС	Grade 4	Grade 5
General Farming	Apply safe and secure practices in the agricultural community	Apply safe and secure practices in the agricultural community
	Apply basic and general safety practices	Apply basic and general safety practices
		Operate in a team in an agricultural environment
	Identify and maintain fencing for different farming practices	Prepare, erect and maintain wire fencing for different farming practices
	Use and care for hand tools and basic equipment for agricultural tasks	Select, use and care for hand tools and basic equipment for agricultural tasks
	Observe the properties of soil	Demonstrate an understanding of or explain the properties of soil
	Assist in the process of soil preparation and composting	Demonstrate an understanding of soil preparation, composting and the benefits of adding organic enrichments to the soil
	Apply natural fertilization of soil	Apply natural and chemical fertilization of soil
	Recognise the roles and requirements of water in plants	Describe and recognise the roles and requirements of water in plants

		Identify different methods of irrigation
		appropriate to environmental circumstances
		and installing of irrigation if appropriate
	Identify weeds, understand and assist in	Identify and understand manual and
	manual control of weeds	chemical weed control
	Identify insects that have an impact on	Identify limitation factors like insects, pests
	crops	and diseases and the damage it can cause
		Understand the application of natural and
		agrochemical products in a safe, effective
		and responsible manner with consideration
		of the environment
Diant	Apply basic food safety practices	Apply basic food safety practices
Plant		
Production	Identify different crops	Identify, describe and understand
		different crops
		Propagate plants from seeds, cuttings and
		grafting and planting into open ground
	Assist in the planting of seedlings according	Plant a range of crops according to correct
	to correct spacing and depth of the plant	planning, spacing and depth of the plant
	material	material
	$\sim$	Handle planting material correctly for the
		successful establishment of a specific crop
	Applies in the irrigation of graps	Irrigete grope te meintein e produtermined
	Assist in the irrigation of crops	Irrigate crops to maintain a predetermined moisture content
		moisture content
	Assist in harvesting agricultural crops by	Harvest agricultural crops by using basic
	using basic harvesting tools	harvesting tools
		Demonstrate an understanding of crop
		preservation
Gardening/	Understand health and safety in the	Understand health and safety in the
Gardening/	horticulture industry	horticulture industry
L		

Horticulture		
		Propagate plants from seeds and planting into open ground
	Assist in care for ornamental seedlings	Care for ornamental seedlings
		Propagate, plant and establish ornamental plants and trees from containers into open ground
	Assist in mowing lawns in landscape areas	Mow lawns and cut trees in landscape areas
	Assist in basic permaculture principles	Understand, explain and apply basic permaculture principles
	Assist in manipulating plants using pre-	Manipulate plants using pre-determined
	determined methods and techniques	methods and techniques
	Identify and observe a selection of different	Identify and observe the different
Animal	breeds of farm animals	breeds of farm animals
Production		
	Care for small breeds of farm animals:	Care for farm animals
	- poultry	- Cattle breeds: beef
	- goats or sheep or pigs	dairy
	Demonstrate an understanding of healthy	Demonstrate an understanding of healthy
	farm animals	farm animals and their purpose on a farm
		Recognise basic breeding behaviour of
		farm animals
2	Apply basic animal husbandry practices	Apply basic animal husbandry practices
, , , , , , , , , , , , , , , , , , ,	Observe and assist the handling and moving of small breeds of farm animals	Observe, handle and move of farm animals
	Recognise defensive behaviour in animals	Recognise defensive behaviour in animals
	Assist in applying standard animal feeding	Apply standard animal feeding procedures

	procedures	
	Assist in harvesting animal products	Harvesting and processing of animal products
		Demonstrate an understanding of preparing animals for slaughtering and observe the processing of products from slaughtered farm animals
Environ-	Know Healthy Living: medicinal plants	Know Healthy Living: food from the veld
mental	Understand nature and Biodiversity: invasive plant control	Know Nature and Biodiversity: soil conservation
Practices		
	Know indigenous knowledge using earth	Know the effect of natural disasters
	signs to plant and harvest	
	Know how to use water harvesting	Know how to use indigenous knowledge
		about water
Business	Apply basic skills in storage management	Apply basic skills in storage management and stocktaking
Practises		Understand basic costing (income/expenditure)
	Assist in basic entrepreneurial activities in agriculture	Understand entrepreneurship in agriculture

#### 3.2 Content outline per term

Each term comprises of ten (10) weeks and a minimum of nine (9) **practical sessions** are compulsory. The sequence within the term is not compulsory and the teacher may cover the learning content and skills in any appropriate sequence. Learners spend two years in Grade 4, and therefore activities are provided for each week to allow the learners to perform the second suggested **activity** during their second year in grade 4. Visits to farms allow the learners to experience activities on farms first hand and during these visits a variety of activities can be viewed and experienced by the learners.

The Occupational Health and Safety (OHS) Act 85 of 1993 requires the teacher to comply with the safety regulations when issuing equipment and tools to the learners and the teacher may not leave learners unattended during Agricultural Studies instructional time. A group discussion on the safety precautions that must be followed during all the instructional time is compulsory. Learners with a severe intellectual disability are not always able to make abstract judgements, and they are often not able to apply learned knowledge from one topic to the next. Impulsive behaviour as well as the inability to make fast decisions can easily lead to learners finding themselves in, or being exposed to dangerous situations.

#### 3.2.1 Grade 4 Term 1

All objectives must be achieved but the order of lesson presentation may differ according to agricultural circumstances.

		Grade 4 Ter	rm 1
WEEK	TOPIC	<b>CONTENT</b> The learner must be able to	Techniques, activities, resources and process notes
1	General Farming	Apply basic and general safety practices1. Apply personal hygiene2. Understand what basic food safety practices are3. Identify and apply the safety measure regarding the use of basic agricultural tools and equipment4. Understand the basic hygienic requirements 	<ul> <li>agricultural tools and equipment and the dangers associated with its use</li> <li>Learners practice through getting small tasks to do – weed general garden using handheld tools. After use they must be able to properly clean and store tools, explain with use of pictures/drawings to indicate space of tools in storage – learners assist in placing tools in place</li> <li>Observe and discuss different spoilt food products on hand of examples, i.e., mould, yeast, changes of food colour, texture, flavour and/or smell. Allow Learners practically to use their senses – touch, feel, smell and taste where possible.</li> <li>Discuss reasons for cleaning equipment. As an experiment use dirty equipment on food products, leave for a day or two for learners to observe the change in product</li> <li>Identify and name protective clothing (boots, overalls, etc), Practice to dress and fit protective clothing correctly, continue with activities</li> </ul>
		policing	Identify and name protective clothing (boots, overalls, et

	Grade 4 Term 1			
WEEK	ТОРІС	CONTENT The learner must be able to	Techniques, activities, resources and process notes	
		Sustain all agricultural practices needing continuous maintenance	<ul> <li>hanged) in space in storeroom</li> <li>Walk around school/work area, point out and discuss potential safety and security hazards</li> <li>Explain about community policing using a clip from internet</li> <li>Point out safety practices regarding the use/storage of fertilizers and cleaning materials</li> <li>*Teacher's tip: Learners start a garden file/book for keeping records and worksheets, decorate and cover with leaf prints as a creative activity – pointing out different shapes of leaves</li> <li>Gr4 : 2<sup>rd</sup> year</li> <li>Discuss reasons for personal hygiene with learners</li> <li>Learners practice hand wash techniques, learners in year 2 explain to learning in year 1 what they are doing, using the hand wash chart as resource</li> <li>Discuss, name and demonstrate the safe handling of basic hand agricultural tools and equipment and the dangers associated with its use. Learners practice through getting small tasks to do – weed own vegetable plot in garden using specific tools or complete task needed for continuous maintenance. After use they must be able to properly clean and store tools, explain with use of pictures/drawings to indicate space of tools in storage – learners assist in placing tools in place</li> <li>Identify and name different spoilt food products on hand of examples,</li> </ul>	

	Grade 4 Term 1			
WEEK	ТОРІС	<b>CONTENT</b> The learner must be able to	Techniques, activities, resources and process notes	
			<ul> <li>i.e., mould, yeast, changes of food colour, texture, flavour and/or smell. Discuss reasons for cleaning equipment.</li> <li>Fit protective clothing (boots, overalls, etc), Practice to dress and fit protective clothing correctly, continue with activities needed for next activity. Pack away clothing in correct way (folded or hanged) in space in storeroom</li> <li>Walk around school/work area, learners is encouraged to point out and discuss potential safety and security hazards</li> <li>Explain about community policing using a clip from internet, allow learners to discuss and question incidents</li> <li>Point out safety practices regarding the use/storage of fertilizers and cleaning materials</li> <li>*Activity for enrichment – visit a garden in the community within walking distance, indicating and discussing the dangers</li> </ul>	
2	General Farming	<ul> <li>The learner must be able to <ul> <li><u>Use and care for hand tools and basic equipment</u></li> <li>for agricultural use:</li> </ul> </li> <li>1. Demonstrate different uses of tools one or two at a time</li> <li>2. Understand safety measures regarding the us of basic agricultural tools and equipment</li> </ul>	<ul> <li>Gr 4 : 1<sup>st</sup> year</li> <li>Identify and name agricultural tools for consolidation (linking activity to week one). Demonstrate on how to use basic hand tools (spade and fork) and the dangers associated with its use</li> <li>Discuss the safety measure using tools while demonstrating</li> <li>Practice through getting small task to do – prepare to dig over shared plot in garden using spade and fork appropriately (let plot rest until permaculture and/or planting is introduced)</li> </ul>	

	Grade 4 Term 1			
WEEK	TOPIC	<b>CONTENT</b> The learner must be able to	Techniques, activities, resources and process notes	
		3. Demonstrate how to care for and maintain	Draw or identify pictures/drawings to indicate space of tools in storage	
		tools and equipment	Clean and store tools	
		4. Select the appropriate tool for use in a specific		
		task	*Teacher's tip: Teacher assists learners to identify 2m X 1m plot per four	
		5. Participate in correct methods to store tools	learners to fulfil their practical skills - learners identify on a simple map	
		and equipment correctly and safely	(worksheet) which plot is theirs through colouring it in with green and place	
			it in file	
		Sustain all agricultural practices needing	Gr 4 : 2 <sup>nd</sup> year	
		continuous maintenance	Demonstration on how to use basic hand tools and the dangers associated	
			with its use continuing to prepare first vegetable patch	
			Draw or identify pictures/drawings to indicate space of tools in storage	
			Do small tasks and prepare garden using specific tools	
			Complete worksheet with pictures/drawings to connect tools to specific	
			tasks	
			*Teacher's tip: Teacher assists learners to identify 2m X 1m plot per four	
			learners to fulfil their practical skills - learners identify on a simple map	
			(worksheet) which plot is theirs through colouring it in with green and place	
			it in file	
		The learner must be able to	Gr 4 : 1 <sup>st</sup> year	
3	Plant Production	Apply basic food safety practices	Learners are shown how to properly wash hands and equipment before	
		1. Apply personal hygiene	and after working with plant products	
			• Locate and invite a horticulturist to give a demonstration on the correct	

	Grade 4 Term 1			
WEEK	ТОРІС	<b>CONTENT</b> The learner must be able to	Techniques, activities, resources and process notes	
		<ol> <li>Describe what basic food safety practices are and explain reason for treating of wounds of trees (fruit trees) and shrubs (roses)</li> <li>Understand why it is important to remove pruning material and waste from garden according to workplace procedures</li> <li>Understand plant anatomy, photosynthesis and</li> </ol>	garden, learners assist in removing materials using protective clothing	
		<ul><li><u>respiration</u></li><li>1. Explain plant anatomy</li><li>2. Understand photosynthesis and respiration</li></ul>	<ul> <li>Gr 4 : 2<sup>nd</sup> year</li> <li>Learners demonstrate how to properly wash hands and equipment before and after working with plant products</li> <li>Locate and invite a horticulturist to give a demonstration on the correct</li> </ul>	
		Sustain all agricultural practices needing continuous maintenance	<ul> <li>pruning methods</li> <li>Assist with applying treatment to wounds</li> <li>Learners show learners from year one to assist in removing pruning material and waste from garden after demonstration</li> <li>Identify the parts of plants and explain the role each part plays in the plant</li> <li>Complete worksheet (differentiated according to learners ability) for identifying different parts</li> </ul>	
4	Gardening/Horticulture	The learner must be able toUnderstandhealthandsafetyinthe	<ul> <li>Explain photosynthesis and respiration using a chart</li> <li><i>Gr 4with differentiation: 1<sup>st</sup> year</i></li> <li>Demonstrate with available clothes and equipment</li> </ul>	

	Grade 4 Term 1			
WEEK	ТОРІС	<b>CONTENT</b> The learner must be able to	Techniques, activities, resources and process notes	
		<ol> <li>gardening/horticulture industry</li> <li>Explain the importance of protective clothing</li> <li>Demonstrate how to dress</li> <li>Explain how to use equipment and tools safely</li> <li>Explain the reason for good housekeeping</li> <li>Describe and demonstrate the actions that will be taken in an emergency situation</li> <li>Explain the reasons for good housekeeping</li> <li>Sustaining all agricultural practices needing continuous maintenance</li> </ol>	<ul> <li>Use of chart with visual resources to discuss actions</li> <li>Explain the benefits of protective gear</li> <li>Learners use clothes and equipment available whilst assisting in tasks (i.e. weeding, sweeping driveways)</li> <li><i>Gr 4 : 2<sup>nd</sup> year</i></li> <li>Demonstrate with available clothes and equipment – learners repeat demonstration to the class</li> <li>Make use of chart with visual resources to discuss actions</li> <li>Explain the benefits of protective gear</li> <li>Learners use clothes and equipment available whilst assisting in tasks(i.e. weeding, tidying storeroom, sweeping driveways)</li> </ul>	
5	Animal Production	<ul> <li>The learner must be able to</li> <li><u>Identify and observe a selection of different</u></li> <li><u>breeds of farm animals</u></li> <li>1. Identify the different breeds of farm animals in your area</li> <li>2. Discuss the visual differences and physical attributes in farm animal species and describe it using own words</li> </ul>	Use a poster or books to identify and describe animals using own words	

		Grade 4 Ter	rm 1
WEEK	ТОРІС	<b>CONTENT</b> The learner must be able to	Techniques, activities, resources and process notes
		<ol> <li>Explain the functional purpose of the different farm animal species</li> <li><u>Sustain all agricultural practices needing</u> <u>continuous maintenance</u></li> </ol>	<ul> <li>Gr 4 : 2<sup>nd</sup> year</li> <li>Observe selection of small breeds of farm animals on a video clip from internet or a dvd</li> <li>Explain the visual differences in small farm animal breeds</li> <li>Use a poster or books to identify and describe animals using own words</li> <li>Learners practically interact with smaller farm animals while feeding animals by hand where possible</li> <li>Label small breeds of farm animals on a worksheet</li> </ul>
6	Animal Production	<ul> <li>The learner must be able to</li> <li><u>Care for small breeds of farm animals: poultry</u></li> <li>Classification of types of poultry</li> <li>Observe the visual difference, physical attributes, behaviour and movement of animals within each species</li> <li>Explain the functional purpose of the species</li> <li>Identify basic equipment needed for caring of animals</li> <li>Explain different care methods for young animals</li> <li><u>Sustain all agricultural practices needing continuous maintenance</u></li> </ul>	<ul> <li>Gr 4 : 1<sup>st</sup> year</li> <li>Discuss main types of poultry: chickens, ducks, geese, turkeys, ostriches</li> <li>Practical explanation with live animal</li> <li>Use visual resources for discussion</li> <li>Encourage learners to use own words to describe animals</li> <li>Learners interact with animals available on premises or within walking distance from school,, while assisting teacher or older learners to care for animals</li> <li>Gr 4 : 2<sup>nd</sup> year</li> <li>Discuss main types of poultry: Chickens, ducks, geese, turkeys, ostriches (make use of pictures or video clips from internet if animals are not housed on school premises)</li> <li>Practical explanation with live animals (if needed bring an animal to</li> </ul>

		Grade 4 Ter	rm 1
<b>WEEK ТО</b>	OPIC	<b>CONTENT</b> The learner must be able to	Techniques, activities, resources and process notes
			<ul> <li>school in a cage)</li> <li>Use visual resources for discussion</li> <li>Encourage learners to use own words to describe animals</li> <li>Learners interact with animals while assisting older learners to care for animals, allowing the teacher to observe the process</li> </ul>
7 An	nimal Production	<ul> <li>The learner must be able to <ul> <li>Demonstrate an understanding of healthy farm</li> <li>animals</li> </ul> </li> <li>1. Recognise the external signs of good health in farm animals</li> <li>2. Observe the growth and production rate of animals</li> </ul> Apply basic animal husbandry practices <ol> <li>Understand the importance or reasons for shelter/housing</li> <li>Identify the different structures needed for housing of different animals</li> </ol> 3. Observe applying appropriate bedding material to animal housing for small breeds of farm animals Sustaining all agricultural practices needing continuous maintenance	<ul> <li>Gr 4 : 1<sup>st</sup> year</li> <li>Discuss the signs of good health in farm animals and the importance of good health for effective productivity</li> <li>Use a chart indicating observation of growth and production</li> <li>Use visual resources while discussing the importance, reasons and structures used for shelter/housing structures</li> <li>Demonstrate the application of appropriate bedding materials</li> <li>Gr 4 : 2<sup>nd</sup> year</li> <li>Discuss the signs of good health in farm animals and the importance of good health for effective productivity</li> <li>Use chart indicating observation of growth and production</li> <li>Use chart indicating observation of growth and production</li> <li>Use visual resources while discussing the importance, reasons and structures used for shelter/housing structures</li> <li>Allow learners to demonstrate the application of appropriate bedding materials while teacher is coaching them through questioning</li> </ul>

		Grade 4 Ter	m 1
WEEK	TOPIC	<b>CONTENT</b> The learner must be able to	Techniques, activities, resources and process notes
8	Environmental Practices	<ul> <li>The learner must be able to <ul> <li><u>Healthy Living: medicinal plants</u></li> </ul> </li> <li>1. Identify plants used for healing</li> <li>2. Discuss what the plants is used for and what parts of plants are used</li> <li>3. Use correct way of harvesting</li> </ul> <li><u>Sustain all agricultural practices needing continuous maintenance</u></li>	<ul> <li>Gr 4 : 1<sup>st</sup> year</li> <li>Ask learners to bring medicinal plants from home or collect a variety of medicinal plants to discuss, i.e. indigenous - buchu, African wormwood, wild willow, hoodia or lavender</li> <li>Demonstrate how plants are used, i.e. tea, ointment</li> <li>Harvest medicinal plants</li> <li><i>Gr 4 : 2<sup>nd</sup> year</i></li> <li>Ask learners to bring medicinal plants from home or collect a variety of medicinal plants to discuss, i.e. indigenous - buchu, African wormwood,</li> </ul>
9		The learner must be able to         Revise and sustain activities taught in previous         weeks and agricultural practices needing	<ul> <li>wild willow, hoodia or lavender</li> <li>Demonstrate how plants are used, i.e. tea, ointment, beauty products</li> <li>Teach learners to make a product</li> <li><i>Gr 4 : 1<sup>st</sup> year</i></li> <li>Repeat activities with learners who need more support</li> <li>Explain to all learners importance of storing equipment and maintaining</li> </ul>
		<ul> <li><u>weeks and agricultural practices needing</u></li> <li><u>continuous maintenance</u></li> <li>1. Be aware of dangers and hygiene when in agricultural environment</li> <li>2. Participate in methods to use/store tools, equipment</li> <li>3. Revise the parts of plants</li> </ul>	<ul> <li>gardening activities when school is closed</li> <li>Complete a worksheet (differentiated according to learners ability) for identifying different parts of plants after the revision</li> <li>Make use of drama to identify the different breeds of farm animals</li> <li>Teacher use question and answer method to revise the types of poultry, also the health and shelter/housing of farm animals</li> <li>Water garden at regular intervals</li> </ul>

	Grade 4 Term 1			
WEEK	ТОРІС	<b>CONTENT</b> The learner must be able to	Techniques, activities, resources and process notes	
		<ol> <li>Dress correctly in protective clothing</li> <li>Answer questions to identify and care of different breeds of farm animals</li> <li>Revise the types of poultry</li> <li>Revisit the site of farm animals and apply/discuss shelter/housing/bedding</li> <li>Name and harvest medicinal plants</li> </ol>	<ul> <li>Gr 4 : 2<sup>nd</sup> year</li> <li>Repeat activities with learners who need more support</li> <li>Explain to all learners importance of storing equipment and maintaining gardening activities when school is closed</li> <li>Complete a worksheet (differentiated according to learners ability) for identifying different parts of plants after the revision</li> <li>Make use of drama to make the sounds and identify the different breeds of farm animals</li> <li>Teacher use question and answer method to revise the types of poultry, also the health and shelter/housing of farm animals</li> <li>Water garden at regular intervals</li> </ul>	
10	Assessment	The week allocated to formal assessment should be integrated across the nine (9) weeks planned for teaching and learning. The assessment will consist of practical tasks with 80% weighting and informal theoretical assessment with 20% weighting. Sustain all agricultural practices needing continuous maintenance		

Assessment

Assessment is formally recorded during four (4) practical sessions with a minimum of four (4) skills reported. Learners, regardless of abilities, shall be assessed on the same skill. The following serves as suggestion of skills to record and report on.

	Gr 4 : 1 <sup>st</sup> year	Gr 4 : 2 <sup>nd</sup> year
Week 2	Use basic hand tools – spade & fork	Use basic hand tools – spade, fork & rake
Week 3	Identify parts of plants	Identify parts of plants
Week 4	Dress in protective clothing	Dress in protective clothing
Week 5	Identify and assist with feeding of smaller	Feed smaller farm animals
	farm animals	
Week 6	Identify and assist with handling of poultry	Feed and care for poultry
Week 7	Assist in applying appropriate bedding	Apply bedding material on own
	material	
Week 8	Name medicinal plants	Harvest medicinal plants
Four theoret	ical activities are assessed and recorded,	however, a minimum of 1 theoretical activity is
reported on.	The following serves as suggestions of theore	etical activities to report on.
Week 3	Worksheet naming three parts of plants	Worksheet naming different parts of plants
Week 5	Label three small breeds of farm animals	Label six small breeds of farm animals on a
	on a worksheet	worksheet

#### 3.2.2 Grade 4 Term 2

All objectives must be achieved but the order of lesson presentation may differ according to agricultural circumstances.

		Grade 4 Ter	m 2
WEEK	TOPIC	CONTENT	Techniques, activities, resources and process notes
		The learner must be able to	
1	General Farming	<ul><li><u>Apply basic and general safety practices</u></li><li>1. Apply personal hygiene</li></ul>	Gr 4 : 1 <sup>st</sup> year Discuss: • Reasons for personal hygiene
		2. Understand what basic food safety practices are	Basic food safety practices and hand wash techniques
		3. Identify and apply the safety measure regarding the use of basic agricultural tools	
		and equipment	Hygienic requirement when dealing with organic food
		4. Understand the basic hygienic requirements	Importance of protective clothing
		of organic food	Reasons for fencing
		5. Understand the importance of protective	• Show examples of animal predators and discuss what damage they
		clothing	can cause
			Visit areas of different kinds of fencing
		Identify and maintain fencing for different farming	Learners observe and assist in practical activities maintaining fencing
		practices	where needed
		1. Identify areas where fencing is used and	Gr 4 : 2 <sup>nd</sup> year
		describe the kinds of fencing used	Discuss:
		2. Identify problems associated or experienced	Reasons for personal hygiene
		where there are no fencing or when fencing	Basic food safety practices and hand wash techniques
		is not maintained	• Safety measures regarding the use of basic agricultural tools and
			equipment
		Sustain all agricultural practices needing	

		Grade 4 Ter	m 2
WEEK	TOPIC	CONTENT	Techniques, activities, resources and process notes
		The learner must be able to continuous maintenance	<ul> <li>Hygienic requirement when dealing with organic food</li> <li>Importance of protective clothing</li> <li>Reasons for fencing</li> </ul>
			<ul> <li>Show examples of animal predators (note what they do - climb, burrow, fly, scratch) and discuss what damage they can cause</li> <li>Visit areas of different kinds of fencing</li> <li>Do practical activities maintaining fencing in different areas</li> <li>Class collect pictures of more examples of local predators</li> </ul>
2	General Farming	<ul> <li>The learner must be able to</li> <li><u>Observe the properties of soil</u></li> <li>1. Define soil structure and properties</li> <li>2. Understand the qualities and uses of different soil types</li> <li>3. Recognise the difference between topsoil and subsoil</li> <li>4. Identify life in the soil study</li> <li>5. Participate in separating topsoil from subsoil</li> <li>6. Know how soil is formed</li> <li><u>Sustain all agricultural practices needing continuous maintenance</u></li> </ul>	<ul> <li>Gr 4 : 1<sup>st</sup> year</li> <li>Do soil in bottle experiment to show learners the different layers and types of soil</li> <li>Practical explanations, demonstrations and discussion</li> <li>Poster of different layers of soil</li> <li>Learners investigate a sample of fresh, moist compost with a magnifying glass in groups, identifying each creature and ticking of those found on a worksheet</li> <li>Learners partake in experiment of making soil or sand using stones</li> <li>Gr 4 : 2<sup>nd</sup> year</li> <li>Each learner do a soil in bottle experiment with soil, from their own gardens or different parts of the school property, to identify the different layers and types of soil</li> <li>Practical explanations, demonstrations and discussion</li> <li>Learners make a poster of different layers of soil with samples from practically digging a hole</li> </ul>

		Grade 4 Ter	m 2
WEEK	TOPIC	CONTENT	Techniques, activities, resources and process notes
		The learner must be able to	Complete worksheet with pictures labelling different kinds of soil
			Explain the cycle of decomposition on hand of a picture graph
2		The learner must be able to	Gr 4 : 1 <sup>st</sup> year
3	General Farming	Assist in the process of soil preparation and	Use picture graphs to assist in explaining the process
		composting	Practical explanation and demonstration of process
		1. Demonstrate an understanding of soil	• Select an area where learners can practically participate in
		preparation	completing the process of tilling and digging
		2. Explain what stockpiling of topsoil is and why	Gr 4 : 2 <sup>nd</sup> year
		it is important	Picture graphs to assist in explaining the process, learners to do part of
		3. Explain why we till and dig before planting	the explanations
		4. Use hand held tools and implements for the	Practical explanation and demonstration of process
		effective preparation of soil	Practical participation by learners in completing the process of tilling
			and digging
		Sustain all agricultural practices needing	• Discuss the problems that can be caused by overdoing the process of
		continuous maintenance	tilling and digging and the benefits of not doing it
		The learner must be able to	Gr 4 : 1 <sup>st</sup> year
4	General Farming	Assist in the process of soil preparation and	Visit sites where different ways of composting is practiced
		composting	Practical explanation while learners observe
		1. Understand the reason for composting	Make a sample of each way of composting while learners assist
		2. Understand the process of making of	• Learners gather available materials and assist in making compost
		compost	heaps
		<ol> <li>Assist in the process of making compost</li> </ol>	Learners make or assist and use hand tools in making compost heaps
			depending on space available

		Grade 4 Ter	m 2
WEEK	TOPIC	CONTENT	Techniques, activities, resources and process notes
		The learner must be able to	
		4. Observe different ways composting, i.e.	Gr 4 : 2 <sup>nd</sup> year
		trench, bin, pile	Visit sites where different ways of composting is practiced
			• Learners divide into groups. Each group to demonstrate choice of
		Sustain all agricultural practices needing	composting -explaining what they do while others observe
		continuous maintenance	• Learners choose the corrects tool to assist in making compost and
			gather available material to make the compost heaps
			Learners keep compost heap wet and turn material correctly
			Learners complete a poster in their group explaining the process
		The learner must be able to	Gr 4 : 1 <sup>st</sup> year
5	Plant Production	Identify different crops and/or fruit cultivars	• Visit a community garden or a farm to identify crops and/or fruit
		1. Identify the important local crops and fruit	cultivars
		cultivars used in the community/or fruit	Poster with illustrations of crops and/or fruit cultivars
		cultivars	• Find pictures in magazines to match illustrations of crops/fuit on poster
		2. Identify various examples of crop or fruit	Complete worksheet grouping vegetables and fruit separately
		according to physical and handling	Gr 4 : 2 <sup>nd</sup> year
		characteristics	• Visit a community garden or farm to identify crops and/or fruit cultivars
		3. Demonstrate an understanding of climatic	in natural environment
		requirements for growing crops and/or fruit	• Learners to bring examples of different crop or fruit species found in
		cultivars suitable for region	area they are living
			• Learners work in groups of four making a poster with illustrations of
		Sustain all agricultural practices needing	crops and/or fruit cultivars either through drawings of their own or by
		continuous maintenance	finding pictures in magazines
			Complete worksheet labelling different crops or fruit cultivars
		The learner must be able to	Gr 4 : 1 <sup>st</sup> year
Lб	Gardening/Horticulture		

		Grade 4 Terr	m 2
WEEK	TOPIC	CONTENT	Techniques, activities, resources and process notes
		The learner must be able to	Visit on energiation where different times of low measure and be
		Assist in mowing lawns in landscape areas	• Visit an organisation where different types of lawn mower can be
		1. Observe different types of lawn mowers and	observed
		actions used to operate	Practical demonstration with lawn mower while learners observe
		2. Explain the preparations necessary for	• While learners are taking turns in using lawnmower under strict
		mowing lawn	supervision other learners can rake and collect grass not caught by
		3. Awareness of wearing protective clothing	lawnmower
		when mowing a lawn and the dangers	Practical demonstration of caring and storage of lawnmower
		associated in using mentioned machines	Gr 4 : 2 <sup>nd</sup> year
		4. Assist in using a lawn mower	Practical demonstration with lawn mower while learners observe
		5. Know how to care for and store a lawn	While learners are taking turns in using lawnmower under strict
		mower	supervision other learners can rake and collect grass not caught by
			lawnmower
		Sustain all agricultural practices needing	Practical demonstration of caring and storage of lawnmower
		continuous maintenance	
		The learner must be able to	Gr 4 : 1 <sup>st</sup> year
7	Animal Production	Care for small breeds of farm animals: goats or	Practical explanation with live animals
		sheep or pigs	Visual resources for discussion
		1. Observe the visual difference, physical	Encourage learners to use own words to describe animal
		attributes, behaviour and movement of	Discuss the signs of good health in farm animals
		animals within each species	Use chart for indicating observation of growth and production
		2. Explain the functional purpose of the species	• Use visual resources allowing learners to identify different structures
		3. Identify basic equipment needed for caring of	
		animals	Learners demonstrate the application of appropriate bedding materials
		4. Explain different care methods for young	while teachers lead them using questions and answers

WEEK T	TOPIC	CONTENT	
		CONTENT	Techniques, activities, resources and process notes
		The learner must be able to	On the order and
		animals	Gr 4 : 2 <sup>nd</sup> year
			Practical explanation with live animals
		Demonstrate an understanding of healthy farm	Visual resources for discussion
		animals	Encourage learners to use own words to describe animals
		1. Recognise the external signs of good health	Discuss the signs of good health in farm animals
		in farm animals	Use chart for indicating observation of growth and production
		2. Observe the growth and production rate of	• Use visual resources allowing learners to identify different structures
		animals	used for shelter/housing
			• Older learners demonstrate the application of appropriate bedding
		Apply basic animal husbandry practices	materials to younger learners
		• Identify the different structures needed for	
		housing of different animals	
		Observe applying appropriate bedding	
		material to animal housing for small breeds of	
		farm animals	
		Sustain all agricultural practices needing	
		continuous maintenance	
		The learner must be able to	Gr 4 : 1 <sup>st</sup> year
8 E	Environmental	Understand Nature and Biodiversity: invasive	<ul> <li>Use a poster to identify and name invasive plants</li> </ul>
	Practices	plant control	• Visit areas on or around school grounds, or an area in the community
		1. Identify and name invasive plants	to identify invasive plants after discussing and naming the plants
		2. Explain the impact of invasive alien plants on	• Teacher demonstrate on how to remove invasive plants on premises or
			in nearby vicinity while learners assist

		Grade 4 Terr	m 2
WEEK	TOPIC	CONTENT	Techniques, activities, resources and process notes
		The learner must be able to	Gr 4 : 2 <sup>nd</sup> year
		nature	
		3. Remove invasive plants in area	Use poster for learners to identify and name invasive plants
			• Visit areas on or around school grounds, or an area in the community
		Sustaining all agricultural practices needing	to remove invasive plants
		continuous maintenance	Learners practically remove invasive plants on premises or in nearby
			vicinity
		The learner must be able to	Gr 4 : 1 <sup>st</sup> year
9		Revise and sustain activities taught in previous	Observe and report fencing where needed
		weeks and agricultural practices needing	Separate topsoil from subsoil
		continuous maintenance	Dig over bed
		1. Observe, report and assist in practical	Place composting material with correct composting process according
		activities maintaining fencing where needed	to verbal instruction
		2. Separate topsoil from subsoil and name	Name different cultivars/crops
		samples of different soil types	Prepare area for mowing
		3. Dig over bed and prepare bed for	Name different farm animals discussed
		permaculture process	Identify invasive plants
		4. Place composting material with correct	Gr 4 : 2 <sup>nd</sup> year
		composting process according to verbal	Assist in practical activities maintaining fencing where needed
		instruction and dig over materials	Name samples of different soil types
		5. Name different cultivars/crops and connect	Prepare bed for permaculture process
		cultivars/crops to plant or tree	Dig over composting material in correct way
		6. Prepare area for mowing, rake and collect	Connect cultivars/crops to plant or tree
		grass	Rake and collect grass after mowing
		7. Name different animals and apply bedding	Apply bedding materials for animals correctly

	Grade 4 Term 2					
WEEK	TOPIC	CONTENT	Techniques, activities, resources and process notes			
		The learner must be able to				
		materials correctly	Remove invasive plants			
		8. Identify invasive plants and remove invasive				
		plants				
	Assessment	The week allocated to formal assessment should be integrated across the nine (9) weeks planned for teaching and learning.				
10		The assessment will consist of practical tasks with 80% weighting and informal theoretical assessment with 20% weighting.				
		Sustain all agricultural practices needing continuous maintenance				

Assessment

Assessment is formally recorded during four (4) practical sessions with a minimum of four (4) skills reported. Learners, regardless of abilities, shall be assessed on the same skill. The following serves as suggestion of skills to record and report on.

	Gr 4 : 1 <sup>st</sup> year	Gr 4 : 2 <sup>nd</sup> year			
Week 2	Observe and report fencing where	Assist in practical activities maintaining fencing			
	maintenance is needed	where needed			
Week 3	Separate topsoil from subsoil	Name samples of different soil types			
Week 4	Dig over bed	Prepare bed for permaculture process			
Week 5 Place composting material with correct		Dig over composting material in correct way			
	composting process				
Week 6	Name different cultivars/crops	Connect cultivars/crops to plant or tree			
Week 7	Prepare area for mowing	Rake and collect grass after mowing			
Week 8	Name different farm animals discussed	Apply bedding materials for animals correctly			
Four theoretical activities are assessed and recorded, however, a minimum of 1 theoretical activity is					
reported on. The following serves as suggestions of theoretical activities to report on.					
Week 2	Tick off creatures found, on worksheet	Label different kinds of soil			
Week 5	Complete worksheet grouping vegetables	Complete worksheet labelling different crops or			
	and fruit separately	fruit cultivars			

#### 3.2.3 Grade 4 Term 3

All objectives must be achieved but the order of lesson presentation may differ according to agricultural circumstances.

		m 3	
WEEK	TOPIC	CONTENT The learner must be able to	Techniques, activities, resources and process notes
1	General Farming	<ul> <li><u>Apply basic and general safety practices</u></li> <li>1. Apply personal hygiene</li> <li>2. Understand what basic food safety practices are</li> <li>3. Identify and apply the safety measure regarding the use of basic agricultural tools</li> </ul>	<ul> <li>Gr 4 : 1<sup>st</sup> year</li> <li>Discuss: <ul> <li>Reasons for personal hygiene</li> <li>Basic food safety practices and hand wash techniques</li> <li>Safety measures regarding the use of basic agricultural tools and equipment</li> </ul> </li> </ul>
		<ul> <li>and equipment</li> <li>Understand the basic hygienic requirements of organic food</li> <li>Understand the importance of protective clothing</li> </ul>	<ul> <li>Hygienic requirement when dealing with organic food</li> <li>Importance of protective clothing</li> <li>Experiment with three different vegetable plots planted with the same seedlings. One treated with natural fertilizer, one only being watered and one getting no attention.</li> </ul>
		<ul><li><u>Natural fertilization of soil</u></li><li>1. Understand nutritional needs and deficiencies in plants</li></ul>	<ul> <li>Practical sessions of making different kinds of natural fertilizers</li> <li>Set up a simple worm farm using materials available</li> <li><i>Gr 4 : 2<sup>nd</sup> year</i></li> </ul>
		<ol> <li>Identify the reason for fertilizing crops</li> <li>Prepare natural fertilizers with plant material</li> <li>Explain the purpose of a worm farm</li> <li>Apply natural fertilizer to a crop</li> <li>Sustain all agricultural practices needing</li> </ol>	<ul> <li>Discuss:</li> <li>Reasons for personal hygiene</li> <li>Basic food safety practices and hand wash techniques</li> <li>Safety measures regarding the use of basic agricultural tools and equipment</li> <li>Hygienic requirement when dealing with organic food</li> </ul>

		Grade 4 Terr	m 3
WEEK	TOPIC	CONTENT	Techniques, activities, resources and process notes
		The learner must be able to	less automas of successful all this s
		continuous maintenance	Importance of protective clothing
			<ul> <li>Experiment with three different vegetable plots planted with seedling. One treated with natural fertilizer, one only being watered and one getting no attention.</li> <li>Practical sessions of making different kinds of natural fertilizers</li> <li>Explain the need of maintaining a worm farm</li> <li>Each learner set up a simple worm farm with three 5litre ice-cream tube</li> </ul>
			tubs
2		The learner must be able to	Gr 4 : 1 <sup>st</sup> year
2	General Farming	Recognise the roles and requirements of water in	• Explain how the amount of water and the frequency of watering
		plants	influences the growth of a plant - do experiment in class with a set of
		1. Understand the functions that water plays in	similar pots with seedlings
		the growth and development of plants	Discussions with help of resources like books or posters
		2. Identify the water requirements of different	• Use different equipment to water garden, including innovative recycling
		plants	materials – i.e. watering can, bottle, bucket
		3. Select the right method of watering and the	Learners complete worksheet matching different watering equipment
		correct time of day to water plants	Learners take turns to water garden at regular intervals
			Gr 4 : 2 <sup>nd</sup> year
		Sustain all agricultural practices needing	• Discuss the water requirements of different plants using the garden
		continuous maintenance	and pot plants as examples
			• Explain reasons for the correct time of day to water plants using
			pictures as resources
			• Discuss different equipment used to water garden; watering can,

	Grade 4 Term 3				
WEEK	TOPIC	CONTENT	Techniques, activities, resources and process notes		
3	Plant Production	The learner must be able to         Assist in the planting of seedlings according to         correct spacing and depth of the plant material         1. Assist in using tools correctly for every specific crop         2. Assist in using equipment correctly in order to space plants According to the requirements of the specific crop         3. Explain intercropping and companion planting when planting in a small area         4. Understand handling seedlings correctly for successful establishment of specific crops         Sustain all agricultural practices needing	<ul> <li>hosepipe, etc</li> <li>Explain importance of not spraying too strongly with equipment</li> <li>Complete worksheet naming different watering methods</li> <li>Learners irrigate the crops which were planted. Turns are made so as to give all a chance</li> <li><i>Gr4 : 1<sup>st</sup> year</i></li> <li>Use poster with illustrations of tools to explain tools</li> <li>Demonstrate how to use equipment correctly</li> <li>Use available tools for process</li> <li>Practical demonstration of companion planting</li> <li>Learners individually plant seedlings in own plot using companion planting</li> <li><i>Gr4 : 2<sup>nd</sup> year</i></li> <li>Use poster with illustrations of tools to explain tools</li> </ul>		
4	Plant Production	continuous maintenanceThe learner must be able toAssist in the irrigation of crops1. Explain water requirements of different plants	<ul> <li>Gr 4 : 1<sup>st</sup> year</li> <li>Discuss water requirements</li> <li>Experiment on what will happen if plants are watered too much or too little</li> </ul>		

		Grade 4 Terr	m 3
WEEK	TOPIC	CONTENT	Techniques, activities, resources and process notes
		<i>The learner must be able to</i> 2. Assist in selecting the right method of	<ul> <li>Use available watering equipment – watering cans, bottles, buckets,</li> </ul>
		watering plants	
			etc
		3. Explain the correct time of day to water plants	Assist in watering the garden
		4. Observe and understand irrigation systems	Gr 4 : 2 <sup>nd</sup> year
		for a specific area	• Visit a farm or a garden where different methods of irrigation is used
			• Discuss an irrigation system that is suitable and affordable to the
		Sustain all agricultural practices needing	schools' need:
		continuous maintenance	- watering cans/containers
			- hose pipes
			- sprayers
		The learner must be able to	Gr 4 : 1 <sup>st</sup> year
5	Gardening/	Assist in the care for ornamental seedlings	Use drawings or pictures to discuss environmental conditions
	horticulture	1. Explain the importance of humidity in the	Learners assist in planting ornamental seedlings
	nonticulture	seedling environment	Demonstrate and practise how to apply appropriate watering
		2. Demonstrate how to care for seedlings once	• Use experiment to explain what needs are important for seedlings to
		they have been planted out	survive (one set of plants getting too much water, one too little, one no
			sunlight and one set in area with correct conditions)
		Sustain all agricultural practices needing	Gr 4 : 2 <sup>nd</sup> year
		continuous maintenance	• Use experiment to explain what needs are important for seedlings to
			survive (one set of plants getting too much water, one too little, one no
			sunlight and one set in area with correct conditions)
			Learners plant ornamental seedlings on already prepared plots and
			demonstrate to teacher how to care for and water seedlings correctly

	Grade 4 Term 3						
WEEK	TOPIC	CONTENT	Techniques, activities, resources and process notes				
		The learner must be able to	Gr 4 : 1 <sup>st</sup> year				
6	Gardening/	The learner must be able to					
0	Caracining,	Assist in basic permaculture principles	The importance of available resource is explained				
	horticulture	1. Explain what the basic principles of	• Discuss the names and functions of commonly used plants in the				
	normountario	permaculture is	permaculture context with examples or pictures				
		2. List the resources available on the site i.e.	• Learners observe while teacher demonstrate the basic way of				
		- grey water harvesting system	preparing a plot in a small garden for permaculture planting (dig plot				
		- permaculture method of planting	over, add manure, cover with wet newspaper and then cover it with dry				
		- compost heaps	grass)				
		- rainwater harvesting	Teacher plant seedlings while learners observe				
		- ecological pest control	Worksheet: sort pictures in sequence of process of permaculture				
			planting				
		Sustain all agricultural practices needing	Gr 4 : 2 <sup>nd</sup> year				
		continuous maintenance	• The importance of creating or collecting available resource material is				
			explained (i.e. dry grass, old newspapers)				
			• Discuss the names and functions of commonly used plants in the				
			permaculture context with examples or pictures				
			• Explain the characteristics and life cycles of some soil organisms with				
			charts				
			Complete worksheet: sort pictures in sequence of life cycle of soil				
			organism				
			• Learners assist while teacher demonstrate the basic way of preparing				
			a plot in a small garden for permaculture planting (dig plot over, add				
			manure, cover with wet newspaper and then cover it with dry grass)				
			Learners plant seedlings while teacher observe				

		Grade 4 Terr	n 3
WEEK	TOPIC	CONTENT	Techniques, activities, resources and process notes
		The learner must be able to	
7	Animal Production	The learner must be able to	Gr 4 : 1 <sup>st</sup> year
7	Animal Production	Observe and assist the handling and moving of	Practical explanations using video clips of animal behaviour
		small breeds of farm animals	• Learners assist in practical activities in handling and moving of small
		1. Observe and explain animal behaviour	breeds of farm animals
		2. Demonstrate the ability to move animals in a	• Use a agriculture magazines or books/posters/pictures to support the
		controlled manner	discussion
		3. Demonstrate the handling and restraint of an	• Learners watch a video of defensive behaviour in animals or visit area
		animal	on premises where the defensive behaviour of animals is shown to
		4. Discuss the reasons/importance of handling	them
		small farm animals	• Show pictures or videos of injuries caused by animals to highlight the
			importance of safety when working with animals
		Recognise defensive behaviour in animals	Learners act out the behaviour of animals seen on video
		1. Describe anatomical features that are used in	• Practical participation of learners in handling/moving small breeds
		defensive behaviour e.g. hooves, fangs,	while teacher assist
		beaks, etc	Gr 4 : 2 <sup>nd</sup> year
		2. Observe the way in which the animal uses	Practical demonstrations
		anatomical features in defensive behaviour	Learners partake in practical activities in handling and moving of small
			breeds of farm animals
		Sustain all agricultural practices needing	• Learners watch a video of defensive behaviour in animals or visit a
		continuous maintenance	farm where the defensive behaviour of animals is shown to them
			• Use pictures or videos of injuries caused by animals to highlight the
			importance of safety when working with animals
		_	Learners act out the behaviour of animals seen on video

		Grade 4 Ter	m 3
WEEK	TOPIC	CONTENT	Techniques, activities, resources and process notes
		The learner must be able to	Learners partake in practical activities in handling and moving of small breeds of farm animals
8	Environmental Practices Business Practices	The learner must be able to         Understand community and heritage         1. Know about indigenous knowledge using earth signs, alignment of the moon and stars, the earth, son and solar system to plant and harvest         2. Link information to how people in past have utilised indigenous knowledge to determine planting and harvesting         Apply basic skills in storage management         1. Observe the importance of a tidy storage space         2. Prepare storage space through cleaning and disinfecting         3. Identify the appropriate space for storage of different equipment         Assist in basic entrepreneurial activities in agriculture         1. Understand the differences in quality of	<ul> <li>Gr 4 : 1<sup>st</sup> year</li> <li>Give samples of earth signs (seasons) utilised when planting and harvesting certain crops</li> <li>Invite an older member of the community who practices this knowledge so speak to learners about subject</li> <li>Discuss and explain how storage space should be organised</li> <li>Assist in organising and tidying storage space</li> <li>Explain reason and show learners why space is allocated for equipment</li> <li>Make use of produce to practically discuss and compare the quality of products</li> <li>Use products and pricelist from an outlet in the community to discuss pricing of a product. Make learners aware of the cost of expenses in the process of cultivating product</li> <li>Discuss the importance of packaging using samples from the industry. Point out what materials are available through implementing recycling to reduce cost</li> <li>Discuss and demonstrate the setting up of a stall</li> <li>Gr 4 : 2<sup>nd</sup> year</li> <li>Give samples of earth signs (seasons) utilised when planting and harvesting certain crops</li> </ul>

		Grade 4 Terr	m 3
WEEK	TOPIC	CONTENT	Techniques, activities, resources and process notes
		The learner must be able to products and be aware of local preferences	In the on-older member of the computative who prostings this knowledge
			Invite an older member of the community who practices this knowledge
		2. Compare prices of various outlets to price a	
		products	Discuss and explain how storage space should be organised
		3. Understand the importance of packaging and	• Learners start organising and tidying storage space with the
		display of products	assistance of teacher
		4. Understand setting up a stall at school to sell	Show learners why space is allocated for equipment if learners
		produce to parents and local community	struggle to tidy
			Make use of produce to practically discuss and compare the quality of
		Sustain all agricultural practices needing	products
		continuous maintenance	Use products and pricelist from an outlet in the community to discuss
			pricing of a product. Make learners aware of the cost of expenses in
			the process of cultivating product
			• Discuss the importance of packaging using samples from the industry.
			Point out what materials are available through implementing recycling
			to reduce cost
			Learners assist in the setting up of a stall
		Revise and sustain activities taught in previous	Gr 4 : 1 <sup>st</sup> year
9		weeks and agricultural practices needing	Repeat activities with learners who need more support
		continuous maintenance	Learner assist in preparing natural fertilizer
		1. Assist in preparing natural fertilizer	• Learners re-pack a simple worm farm following the instructions of the
		2. Re-pack worm farm	teacher
		3. Apply natural fertilizer to crops	Apply natural fertilizer to crops with assistance of teacher
		_	Learners water garden under the supervision of the teacher

	Grade 4 Term 3						
WEEK	TOPIC	CONTENT	Techniques, activities, resources and process notes				
		<ul><li><i>The learner must be able to</i></li><li>4. Select the right method of watering/irrigation</li></ul>	<ul> <li>Diant acadimas using companies platting</li> </ul>				
		5 5 5	5 5 1 1 5				
		and the correct time of day to water plants	Plant ornamental seedling with assistance of teacher				
		5. Intercropping and companion planting when	• Teachers instruct learner in preparing a plot using basic way of				
		planting a small area	permaculture				
		6. Care for/plant ornamental seedling	Learners assist in handling and moving animals				
		7. Assist in permaculture principles	Gr 4 : 2 <sup>nd</sup> year				
		8. Handle and move of small breeds of farm	Repeat activities with learners who need more support				
		animals	Prepare natural fertilizer				
			• Learners set-up or re-pack a simple worm farm while teacher coach				
			them with questions and answers				
			Apply natural fertilizer to crops				
			Learners water garden				
			Plant seedlings using intercropping planting				
			Plant ornamental seedling				
			• Teachers coach learners through question and answer method, in				
			preparing a plot using basic way of permaculture				
			Learners handle and move animals while teacher assist				
10		The week allocated to formal assessment should be	e integrated across the nine (9) weeks planned for teaching and learning.				
10	Assessment	The assessment will consist of practical tasks with 8	80% weighting and informal theoretical assessment with 20% weighting.				
		Sustain all agricultural practices needing continuous	s maintenance				
I							

Assessment

Assessment is formally recorded during four (4) practical sessions with a minimum of four (4) skills reported. Learners, regardless of abilities, shall be assessed on the same skill. The following serves as suggestion of skills to record and report on.

	Gr 4 : 1 <sup>st</sup> year	Gr 4 : 2 <sup>nd</sup> year					
Week 1	Re-pack worm farm with assistance	Prepare natural fertilizer					
Week 2	Water garden	Water garden choosing correct equipment					
Week 3	Plant seedlings (companion planting)	Plant seedlings (intercropping)					
Week 4	Discuss water requirements	Discuss irrigation systems					
Week 5	Plant ornamental seedlings with	Plant ornamental seedlings					
	assistance						
Week 6	Prepare permaculture plot with assistance	Prepare permaculture plot					
Week 7	Assist in handle and move animals	Handle and move animals					
Week 8	Tidy storeroom with assistance	Tidy storeroom					
Four theo	pretical activities are assessed and recorded	d, however, a minimum of 1 theoretical activity is					
reported of	on. The following serves as suggestions of the	eoretical activities to report on.					

Week 4	Worksheet:	match	differe	nt water	ring	Worksheet: r	name differe	nt wa	tering equip	omer	nt
	equipment										
Week 6	Worksheet:	sequence	of	process	of	Worksheet:	sort picture	s in	sequence	of	life
	permaculture	planting				cycle of soil of	organisms				



## 3.2.4 Grade 4 Term 4

All objectives must be achieved but the order of lesson presentation may differ according to agricultural circumstances.

Grade 4 Term 4							
WEEK         TOPIC         CONTENT           The learner must be able to         The learner must be able to	Techniques, activities, resources and process notes						
1       Apply basic and general safety practices         1       Apply basic and general safety practices         1       Apply personal hygiene         2       Understand what basic food safety practices are         3       Identify and apply the safety measure regarding the use of basic agricultural tools and equipment         4       Understand the basic hygienic requirements of organic food         5       Understand the importance of protective clothing         Identify weeds, understand and assist in manual control of weeds       1. Identify common types of weeds in designated pieces of land ( either in general garden or gardens to be or in gardens neglected over a holiday period)         2       Explain the reason for hand or manual control of weeds	<ul> <li>Gr 4 : 1<sup>st</sup> year</li> <li>Discuss:</li> <li>Reasons for personal hygiene</li> <li>Basic food safety practices and hand wash techniques</li> <li>Safety measures regarding the use of basic agricultural tools and equipment</li> <li>Hygienic requirement when dealing with organic food</li> <li>Importance of protective clothing</li> <li>Use poster with common types of weed to explain weeds</li> <li>Discuss weeds</li> <li>Learners find weeds in garden to match pictures on poster</li> <li>Match and glue weeds next to drawing on worksheet</li> <li>Explain reason for weeding and demonstration of manual weeding</li> <li>Learners participate in manual weeding in already established school garden with supervision as well as in individual plots in group garden</li> <li>*Activity for enrichment: visit or invite specialist from herbarium at museum, etc to identify weeds and point out which ones can be used for gardening enrichment or medicinal purposes</li> </ul>						

	Grade 4 Term 4					
WEEK			Techniques, activities, resources and process notes			
		The learner must be able to				
		3. Assist in manual weeding	Gr 4 : 2 <sup>nd</sup> year			
			Discuss reasons for personal hygiene			
		Sustain all agricultural practices needing	Use chart with hand wash techniques			
		continuous maintenance	• Discuss and practical demonstration regarding the use of basic			
			agricultural tools, equipment and protective clothing			
			Identify and name common types of weeds in garden			
			Complete worksheet naming common types of weeds in garden			
			Learners demonstrate and explain manual weeding			
			Practically participation in weeding of individual plots in group			
			garden			
			*Activity for enrichment: visit or invite specialist from herbarium at			
			museum, etc to identify weeds and point out which ones can be used for			
			gardening enrichment or medicinal purposes			
		The learner must be able to	Gr 4 : 1 <sup>st</sup> year			
2	General Farming	Identify insects that have an impact on crops	Collect insects from garden with a net			
		1. Recognise different insects	• Label different insects using a chart, indicate which insects are			
		2. Establish which are harmful for specific crops	harmful ones, let the eco-friendly insect go			
		3. Identify insects that should be protected and	Complete worksheet, circle eco-friendly insects			
		are good for crops	• Discuss the best way to rid garden of harmful insects manually			
		4. Understand that all insects have a purpose in	Gr 4 : 2 <sup>nd</sup> year			
		an eco-system	Collect harmful insect from garden with a net			
		5. Control insects manually	Investigate the insects through a magnifying glass			

		Grade 4 Term	n 4
WEEK	TOPIC	CONTENT The learner must be able to	Techniques, activities, resources and process notes
		Sustain all agricultural practices needing continuous maintenance	<ul> <li>Identify which insects have which affect (harmful or eco-friendly) on crops/plants in the area</li> <li>Learners produce their own chart, using agriculture magazines (i.e. Farmers Weekly of the Landbou Weekblad) for examples of different insects</li> <li>Complete worksheet: cut out insects and glue on second page in different categories (harmful or eco-friendly)</li> <li>Practically control insects manually</li> </ul>
3	Plant Production	<ul> <li>The learner must be able to <ul> <li><u>Assist in harvesting agricultural crops by using basic harvesting tools</u></li> </ul> </li> <li>1. Understand methods of testing for the maturity, ripeness and correct time for harvesting of the crop</li> <li>2. Understand changes that take place during the ripening process</li> <li>3. Assist in identifying and using of basic harvesting tools to harvest specific crops</li> <li>4. Understand the use, cleaning and storage of basic harvesting tools</li> <li><u>Sustain all agricultural practices needing continuous maintenance</u></li> </ul>	<ul> <li>Gr 4 : 1<sup>st</sup> year</li> <li>Demonstrate with examples of different crops allowing learners to have practical experience</li> <li>Use poster to show stages of crops</li> <li>Use sensory cues; sight, smell and touch to be developed, to indicate maturity of fruit</li> <li>Discuss importance of harvesting area being clean from waste material</li> <li>Demonstrate with appropriate tools e.g. machete how to harvest cabbage or scissors to harvest chillies</li> <li>Learners assist in the processes</li> <li>Gr 4 : 2<sup>nd</sup> year</li> <li>Demonstrate with examples of different crops allowing learners to have practical experience</li> <li>Use poster to show stages of crops</li> </ul>

	Grade 4 Term 4			
WEEK	TOPIC	CONTENT	Techniques, activities, resources and process notes	
		The learner must be able to		
			<ul> <li>Use of sensory cues; sight, smell and touch to be developed</li> </ul>	
			• Discuss importance of harvesting area being clean from waste	
			material	
			• Demonstrate with appropriate tools e.g. machete how to harvest	
			cabbage or scissors to harvest chillies	
			• Learners are divided into groups to actively partake in all the	
			processes of harvesting after discussions	
		The learner must be able to	Gr 4 : 1 <sup>st</sup> year	
4	Gardening/Horticulture	Assist in manipulating plants using pre-	<ul> <li>Discuss the timing of pruning, tools to be used and health needs</li> </ul>	
		determined methods and techniques	Invite a horticulturist of pruner to give a demonstration on the correct	
		1. Observe different methods of pruning shrubs	pruning method for the different plant species (shrub, hedge and	
		(ornamental plants), hedges and trees	trees)	
		2. Assist in the correct method of pruning a	Practical demonstration and learners assist to prune hedge	
		hedge	Gr 4 : 2 <sup>nd</sup> year	
		3. Apply the correct method of pruning	Discuss the timing of pruning, tools to be used and health needs	
		ornamental plants	Invite a horticulturist of pruner to give a demonstration on the correct	
			pruning method for the different plant species (shrub, hedge and	
		Sustain all agricultural practices needing	trees)	
		continuous maintenance	Practical demonstration and learners practise to prune hedge while	
			teacher give advice	
		The learner must be a able to	Gr 4 : 1 <sup>st</sup> year	
5	Animal Production	Assist in applying standard animal feeding	• Describe different types of feed with examples; using own words and	
			focusing on the senses of what it feels, look and smell like	

		Grade 4 Term	14
WEEK	TOPIC	<b>CONTENT</b> The learner must be able to	Techniques, activities, resources and process notes
		<ol> <li>procedures</li> <li>Observe and select the different types of feed for farm animals</li> <li>Assist in selecting suitable feed for specific animals</li> <li>Assist in preparing and filling feeding and drinking troughs</li> <li>Demonstrate the ability to report on feed levels</li> <li>NB! This is done continuously in all the years, so as to prevent animal mortality</li> <li>Sustain all agricultural practices needing continuous maintenance</li> </ol>	Assist in preparing and filling feeding/drinking troughs
6	Animal Production	<ul> <li>The learner must be able to <ul> <li><u>Assist in harvesting animal products</u></li> </ul> </li> <li>1. Understand which animal products come from which animals</li> <li>2. Name animal products which are used by man e.g. milk, meat, eggs, manure</li> <li>3. Describe what the products are used for</li> <li>4. Understand the correct and various</li> </ul>	<ul> <li>Gr 4 : 1<sup>st</sup> year</li> <li>Use poster for description of which animal products come from which animals</li> <li>Visit farm to observe different procedures of harvesting products, i.e. a dairy farm to observe milking of cows or shearing of sheep or visit a butchery to observe the processing of meat</li> <li>Collect eggs in an appropriate manner</li> <li>Explain the importance of the pre-slaughter health status and the</li> </ul>

		Grade 4 Term	14
WEEK	TOPIC	<b>CONTENT</b> The learner must be able to	Techniques, activities, resources and process notes
		<ul> <li>procedures for the harvesting of specific animal products: <ul> <li>a. milk farm animals</li> <li>b. shear farm animals</li> <li>c. collect eggs</li> </ul> </li> <li>5. Assist in preparing equipment for milking</li> <li>6. Assist in milking cows and goats</li> </ul> Demonstrate an understanding of preparing animals for slaughtering and observe the processing of products from slaughtered farm animals <ol> <li>Observe the importance of the pre-slaughter health status</li> <li>Observe the need for strict health and hygiene with handling products</li> <li>Observe the equipment used in a butchery</li> </ol> Sustain all agricultural practices needing continuous maintenance	<ul> <li>economical age of slaughtering</li> <li>Watch a clip from internet or visit a farm where animals are ready to be sent to an abattoir</li> <li><i>Gr4 : 2<sup>nd</sup> year</i></li> <li>Use poster for description of which animal products come from which animals</li> <li>Visit farm to observe different procedures of harvesting products, i.e. a dairy farm to observe milking of cows or shearing of sheep or visit a butchery to observe the processing of meat</li> <li>Practically engage in milking a cow whilst visiting a dairy farm</li> <li>Explain the importance of the pre-slaughter health status and the economical age of slaughtering</li> <li>Watch a clip from internet or visit a farm where animals are ready to be sent to an abattoir</li> </ul>
7	Environmental	The learner must be able to Understand resource use: water	<ul> <li>Gr 4 : 1<sup>st</sup> year</li> <li>Discuss the water cycle using a poster and identify different sources of natural and manmade structures for storage of water</li> </ul>

		Grade 4 Term	14
WEEK	TOPIC	CONTENT	Techniques, activities, resources and process notes
		The learner must be able to	
	Practices	harvesting	<ul> <li>Discuss water scarcity and solutions to the problem</li> </ul>
		1. Identify different sources and supply of water	• Find ways of harvesting water on the internet, i.e. pumping water
		needed for irrigation	(www.playpumps.org), digging wells, collecting and storing rainwater
		2. Discuss water scarcity	
		3. List ways of harvesting water	*Activity for enrichment - erect a commercial rain gauge and record the
			amount of rain every day
		Sustain all agricultural practices needing	Gr 4 : 2 <sup>nd</sup> year
		continuous maintenance	Learners explain the water cycle using a poster and their own words
			• Learners find pictures in magazines of different sources of natural
			and manmade structures for storage of water
			<ul> <li>Discuss water scarcity and solutions to the problem</li> </ul>
			• Find ways of harvesting water on the internet, i.e. pumping water
			(www.playpumps.org), digging wells, collecting and storing rainwater
			*Activity for enrichment – every learner make a rain gauge from recycling
			materials, take it home and record the amount of rain every day. Report
			back at the end of the month
	Ducine of Dreations	The learner must be able to	Gr 4 : 1 <sup>st</sup> year
8	Business Practices	Apply basic skills in storage management	• Discuss and explain how storage space should be organised to
		1. Observe the importance of a tidy storage	ensure easy access to equipment needed
		space	Assist in organising storage space
		2. Prepare storage space through cleaning and	• After harvesting of produce, learners assist in making a list of all
			products roughly on an empty page

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		Grade 4 Tern	14
WEEK	TOPIC	<b>CONTENT</b> The learner must be able to	Techniques, activities, resources and process notes
		3. Understand methods of testing for maturity	Describe different types of feed with examples
		and ripeness of fruit	Description of which animal products come from which animals
		4. Assist in the correct method of pruning a	• Identify different sources of natural and manmade structures for
		hedge or ornamental plants	storage of water
		5. Observe and select different types of feed for	Assist in organising storage space
		farm animals	Gr 4 : 2 <sup>nd</sup> year
		6. Understand which animal products come	• Identify and name common types of weeds in garden on hand of
		from which animal	poster
		7. Identify different sources and supply of water	Identify which insect have which effect(harmful or eco-friendly)
		needed for irrigation	Learners actively partake in processes of harvesting
		8. Observe the importance of a tidy storiage	Learners practise to prune hedge while teacher give advice
		space	Learners assist in selecting suitable feed for specific animals
			Learners describe which products come from which animals
			Learners explain the water cycle
			Assist in practical application of activities regarding storage
		The week allocated to formal assessment should the	be integrated across the nine (9) weeks planned for teaching and learning.
10	Assessment	The assessment will consist of practical tasks with	80% weighting and informal theoretical assessment with 20% weighting.
		Sustain all agricultural practices needing continuou	is maintenance
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## Assessment

Assessment is formally recorded during four (4) practical sessions with a minimum of four (4) skills reported. Learners, regardless of abilities, shall be assessed on the same skill. The following serves as suggestion of skills to record and report on

Observe	Gr 4 : 1 <sup>st</sup> year	Gr 4 : 2 <sup>nd</sup> year
Week 2	Label different insects using a chart	Identify which insect have which
		effect(harmful or eco-friendly
Week 3	Use sensory cues to indicate maturity of fruit	Active participation in processes of harvesting
Week 4	Assist to prune hedge	Prune hedge while teacher give advice
Week 5	Describe different types of feed with	Assist in selecting suitable feed for specific
	examples	animals
Week 6	Describe which animal products come from	Describe which products come from which
	which animals	animals
Week 7	Identify sources of natural/manmade	Explain the water cycle
	structures for storage of water	
Week 8	Assist in organising storage space	Assist in organising storage space
Four theo	retical activities are assessed and recorded.	nowever, a minimum of 1 theoretical activity is
	on. The following serves as suggestions of theory	
-		·
Week 1	Match and glue weeds next to drawing on	Name common types of weeds in garden
	worksheet	

Week 2 Identify and name circle eco-friendly Categorise harmful or eco-friendly insects

3.2.5 Grade 5 Term 1

Learners spend three (3) years in Grade 5, and therefore different suggested activities are provided during their second year in Grade 5 and the third year in Grade 5. It is not advisable to repeat the same activities more than once over the three years as this will not provide the learner the opportunity to learn additional skills.

		Grade 5 Ter	m 1
WEE	TOPIC	<b>CONTENT</b> The learner must be able to	Techniques, activities, resources and process notes
1	General Farming	<ul> <li><u>Apply basic and general safety practices</u></li> <li>Apply personal hygiene</li> <li>Understand what basic food safety practices are</li> <li>Identify and apply the safety measure regarding the use of basic agricultural tools and equipment</li> <li>Understand the basic hygienic requirements of organic food</li> <li>Understand the importance of protective clothing</li> </ul>	<ul> <li>Gr 5: 1<sup>st</sup> year</li> <li>Teacher explains reasons for personal hygiene</li> <li>Use chart with hand wash techniques – learners practically all wash hands, copying demonstration and example of teacher</li> <li>Discuss, name and demonstrate the safe handling of basic hand agricultural tools and equipment and the dangers associated with its use</li> <li>Learners practice through getting small tasks to do – weed general garden using handheld tools. After use they must be able to properly clean and store tools, explain with use of pictures/drawings to indicate</li> </ul>
		<ul> <li><u>Apply safe and secure practices in the agricultural community</u></li> <li>1. Identify potential safety and security hazards in the immediate environment, community or on a farm</li> <li>2. Understand the issues around community policing</li> </ul>	<ul> <li>space of tools in storage – learners assist in placing tools in place</li> <li>Observe and discuss different spoilt food products on hand of examples, i.e., mould, yeast, changes of food colour, texture, flavour and/or smell. Allow Learners practically to use their senses – touch, feel, smell and taste where possible.</li> <li>Discuss reasons for cleaning equipment. As an experiment use dirty equipment on food products, leave for a day or two for learners to</li> </ul>

	Grade 5 Term 1			
WEE T	OPIC	<b>CONTENT</b> The learner must be able to	Techniques, activities, resources and process notes	
		<ol> <li>Understand the issues around neighbourhood watch</li> <li>Understand safety practices regarding fertilizer and cleaning materials</li> <li>Display skills in organising a group around safety and security issues</li> <li><u>Operate in a team in an agricultural environment</u></li> <li>Identify the structure and purpose of a team in an agricultural environment</li> <li>Identify team dynamics within the workplace</li> <li>Understand the roles and responsibilities required to work in a team</li> <li>Apply the roles and responsibilities required to work in a team</li> <li>Apply communication skills within an agricultural environment</li> <li>Review the effectiveness of a team</li> <li>Sustain all agricultural practices needing continuous maintenance</li> </ol>	<ul> <li>observe the change in product</li> <li>Identify and name protective clothing (boots, overalls, etc), Practice to dress and fit protective clothing correctly, continue with activities needed for next activity. Pack away clothing in correct way (folded or hanged) in space in storeroom</li> <li>Walk around school/work area, learners are encouraged to point out and discuss potential safety and security hazards</li> <li>Explain about community policing using a clip from internet, allow learners to discuss and question incidents</li> <li>Point out safety practices regarding the use/storage of fertilizers and cleaning materials</li> <li>Explain the advantages and necessity of working in a team</li> <li>Use one or two teambuilding exercises to demonstrate to learners the effectiveness of teams</li> <li>Define the different roles of people in a team as well as the higher responsibility of the team leaders</li> <li>Practical exercises in the garden to put teamwork to practice in the garden</li> <li>*Teacher's tip: Learners start a garden file/book for keeping records and worksheets, decorate and cover with leaf prints as a creative activity pointing out different shapes of leaves</li> </ul>	

	Grade 5 Term 1			
WEE	TOPIC	CONTENT The learner must be able to	Techniques, activities, resources and process notes	
			<ul> <li>Gr 5: 2<sup>nd</sup> year</li> <li>Teacher explains reasons for personal hygiene</li> <li>Use chart with hand wash techniques – learners practically all wash hands, copying demonstration and example of teacher</li> <li>Discuss, name and demonstrate the safe handling of basic hand agricultural tools and equipment and the dangers associated with its use.</li> <li>Learners practice through getting small tasks to do – weed general garden using handheld tools.</li> <li>After use they must be able to properly clean and store tools, explain with use of pictures/drawings to indicate space of tools in storage – learners assist in placing tools in place</li> <li>Observe and discuss different spoilt food products on hand of examples, i.e., mould, yeast, changes of food colour, texture, flavour and/or smell. Allow Learners practically to use their senses – touch, feel, smell and taste where possible.</li> <li>Discuss reasons for cleaning equipment. As an experiment use dirty equipment on food products, leave for a day or two for learners to observe the change in product</li> <li>Identify and name protective clothing (boots, overalls, etc), Practice to dress and fit protective clothing correctly, continue with activities needed for next activity. Pack away clothing in correct way (folded or hanged) in space in storeroom</li> </ul>	

	Grade 5 Term 1			
WEE	TOPIC	<b>CONTENT</b> The learner must be able to	Techniques, activities, resources and process notes	
			<ul> <li>Walk around school/work area, learners are encouraged to point out and discuss potential safety and security hazards and what they would do to improve dangerous areas</li> <li>Explain about community policing using a clip from internet, allow learners to discuss and question incidents</li> <li>Point out safety practices regarding the use/storage of fertilizers and cleaning materials</li> <li>Explain the advantages and necessity of working in a team</li> <li>Introduce one or two new teambuilding exercises to demonstrate to learners the effectiveness of teams</li> <li>Define the different roles of people in a team as well as the higher responsibility of the team leaders</li> <li>Practical exercises in the garden to put teamwork to practice in the garden</li> <li>Gr 5: 3<sup>rd</sup> year</li> <li>Teacher explains reasons for personal hygiene</li> <li>Use chart with hand wash techniques – learners practically all wash hands, copying demonstrate the safe handling of basic hand agricultural tools and equipment and the dangers associated with its use.</li> </ul>	

	Grade 5 Term 1			
WEE	TOPIC	<b>CONTENT</b> The learner must be able to	Techniques, activities, resources and process notes	
			<ul> <li>Learners practice through getting small tasks to do – weed general garden using handheld tools.</li> <li>After use they must be able to properly clean and store tools, explain with use of pictures/drawings to indicate space of tools in storage – learners assist in placing tools in place</li> <li>Observe and discuss different spoilt food products on hand of examples, i.e., mould, yeast, changes of food colour, texture, flavour and/or smell. Allow Learners practically to use their senses – touch, feel, smell and taste where possible.</li> <li>Discuss reasons for cleaning equipment. As an experiment use dirty equipment on food products, leave for a day or two for learners to observe the change in product</li> <li>Identify and name protective clothing (boots, overalls, etc), Practice to dress and fit protective clothing correctly, continue with activities needed for next activity. Pack away clothing in correct way (folded or hanged) in space in storeroom</li> <li>Walk around school/work area, learners are encouraged to point out and discuss potential safety and security hazards and what they would do to improve dangerous areas</li> <li>Explain about community policing using a clip from internet, allow learners to discuss and question incidents</li> <li>Point out safety practices regarding the use/storage of cleaning</li> </ul>	

	Grade 5 Term 1			
WEE	TOPIC	<b>CONTENT</b> The learner must be able to	Techniques, activities, resources and process notes	
2	General Farming	Select, use and care for hand tools and basic         equipment for agricultural tasks         1. Select the appropriate tool for use in a specific task         2. Apply safety measures regarding the use of basic agricultural tools and equipment         3. Demonstrate how to care for and maintain tools and equipment         4. Describe correct methods to store tools and equipment correctly and safely         Prepare, erect and maintain wire fencing for	<ul> <li>materials</li> <li>Learners discuss the advantages and necessity of working in a team</li> <li>Repeat previous teambuilding exercises to strengthen the effectiveness of teams</li> <li>Define the different roles of people in a team as well as the higher responsibility of the team leaders</li> <li>Practical exercises in the garden to put teamwork to practice in the garden</li> <li><i>Gr5: 1<sup>st</sup> year</i></li> <li>Demonstrate how to use basic hand tools and the dangers associate with its use</li> <li>Learners practically use hand tool and equipment whilst preparing first vegetable patch</li> <li>Demonstrate how to care and maintain hand tools</li> <li>Learners replace equipment in places (pictures/words for indicating space of tools in storage) correctly and safely</li> <li>*Teacher's tip: Teacher assists learners to identify 2m X 1m plot per four learners to fulfil their practical skills – learners identify on a simple map (worksheet) which plot is theirs through colouring it in with green and place it in file</li> <li>Discuss reasons for fencing</li> </ul>	

		Grade 5 Ter	m 1
WEE	ΤΟΡΙϹ	<b>CONTENT</b> The learner must be able to	Techniques, activities, resources and process notes
		<ul> <li><u>different farming practices</u></li> <li>1. Identify areas that need fencing and describe kinds of fencing to implemented</li> <li>2. Identify and map area to be fenced</li> <li>3. Prepare equipment and material to be used</li> <li>4. Preparation of area to be fenced</li> <li>5. Erection of fences and gates</li> <li>6. Identify problems associated or experienced</li> </ul>	<ul> <li>Show examples of animal predators (note what they do - climb, burrow, fly, scratch) and discuss what damage they can cause</li> <li>Visit areas with different kinds of fencing</li> <li>Teacher and learners check whether existing fencing is in order and learners assist in doing the necessary maintenance as required</li> <li>Practical activities maintaining fencing in different areas</li> <li>Select correct equipment to be used in preparation to do maintenance work on fencing</li> </ul>
		during erecting of fencing          Sustain all agricultural practices needing continuous         maintenance	<ul> <li>Gr 5: 2<sup>nd</sup> year</li> <li>Learners demonstrate to each other how to use basic hand tools and the dangers associate with its use while teacher guide them</li> <li>Learners practically use hand tool and equipment whilst preparing first vegetable patch</li> <li>Learners demonstrate to each other on how to care and maintain hand tools</li> <li>Learners replace equipment in places (pictures/words for indicating space of tools in storage) correctly and safely</li> </ul>
			<ul> <li>*Teacher's tip: Teacher assists learners to identify 2m X 1m plot per four learners to fulfil their practical skills</li> <li>Learners explain reasons for fencing to the teacher</li> <li>Visit areas with different kinds of fencing where learners explain to</li> </ul>

	Grade 5 Term 1			
WEE	TOPIC	<b>CONTENT</b> The learner must be able to	Techniques, activities, resources and process notes	
			<ul> <li>each other what the reason is for different kinds of fencing</li> <li>Teacher and learners check whether existing fencing is in order and learners assist in doing the necessary maintenance as required</li> <li>Practical activities maintaining fencing in different areas</li> <li>Select correct equipment to be used in preparation to do maintenance work on fencing</li> <li>Identify an area to be fenced and explain why good fencing is required (especially if livestock is to be kept) and what kind of fencing is appropriate to use</li> <li>Learners from year 3 demonstrate on what preparation to be done and the process (equipment needed – koevoet and spades to make holes to plant the poles; pliers, wire puller, measuring tape, etc. For actual fencing)</li> <li>Gr5: 3<sup>rd</sup> year</li> <li>Demonstrate how to use basic hand tools and the dangers associate with its use while teacher supervise</li> <li>Use hand tool and equipment whilst preparing first vegetable patch</li> <li>Care for and maintain hand tools while teacher supervise</li> <li>Replace equipment in places (pictures/words for indicating space of tools in storage) correctly and safely</li> <li>Explain reasons for fencing</li> <li>Teacher and learners check whether existing fencing is in order,</li> </ul>	

	Grade 5 Term 1			
WEE	TOPIC	<b>CONTENT</b> The learner must be able to	Techniques, activities, resources and process notes	
			<ul> <li>teacher supervise while learners do the necessary maintenance as required</li> <li>Select correct equipment to be used in preparation for fencing</li> <li>Identify an area to be fenced and explain why good fencing is required (especially if livestock is to be kept) and what kind of fencing is appropriate to use</li> <li>Prepare holes to plant poles and complete the process of fencing (equipment needed – koevoet and spades to make holes to plant the poles; pliers, wire puller, measuring tape, etc. for actual fencing) – teacher advise and assist where needed.</li> </ul>	
3	Plant Production	<ul> <li><u>Apply basic food safety practices</u></li> <li>Apply personal hygiene</li> <li>Describe what basic food safety practices are</li> <li>Understand why it is important to remove waste from garden according to workplace procedures</li> <li>Understand the basic requirements of organic food</li> <li><u>Identify, describe and understand different crops</u></li> <li><u>and/or fruit cultivars</u></li> <li>Demonstrate an understanding of different crops/fruit cultivars in region</li> </ul>	<ul> <li>Explain importance of removing waste (weeds, pruning and infected garden waste) from garden</li> <li>Visit community gardens to identify important crops (fruit and vegetables) of the region – also encourage learners to identify crops from their own gardens)</li> </ul>	

		Grade 5 Terr	m 1
WEE	TOPIC	<b>CONTENT</b> The learner must be able to	Techniques, activities, resources and process notes
		<ol> <li>Identify various examples of crops according to physical and handling characteristics</li> <li>Demonstrate an understanding of climatic requirements for growing crops suitable for region</li> <li>Identify appropriate soil preparation methods for the planting of different crops/fruit</li> <li>Sustain all agricultural practices needing continuous maintenance</li> </ol>	<ul> <li>Learners show each other how to properly wash hands and equipment before and after working with plant products</li> <li>Discuss the basic requirement of organic food, i.e. no pesticides/fertilizers and the safety requirements to adhere to</li> </ul>

	Grade 5 Term 1			
WEE	TOPIC	<b>CONTENT</b> The learner must be able to	Techniques, activities, resources and process notes	
			<ul> <li>Use the information obtained from websites to make group poster s using illustrations from magazines or drawings</li> <li>Explain importance of removing waste (weeds, pruning and infected garden waste) from garden</li> <li>Visit community gardens or a farm to identify important crops of the region</li> <li>Label a poster with illustrations of crops</li> <li>Find pictures in magazines to match illustrations of crops/fruit on poster with which learners make individual posters</li> <li>Demonstrate soil preparation methods for the planting of different crops/fruit and discuss appropriate spaces to plant different crops/fruit</li> </ul>	
4	Gardening/Horticul ture	<ul> <li><u>Health and safety in the gardening/horticulture</u> <u>industry</u></li> <li>1. Explain the importance and benefits of protective clothing</li> <li>2. Explain how to use equipment and tools safely</li> <li>3. Explain the reason for good housekeeping</li> <li>4. Explain what the possible hazards are in the horticulture industry</li> <li>5. Describe and demonstrate the actions that will be taken in an emergency situation</li> </ul>	<ul> <li>Gr 5: 1<sup>st</sup> year</li> <li>Demonstrate with available clothes and equipment</li> <li>Explain that different protective clothing is for specific tasks</li> <li>Make use of chart with visual resources to discuss actions</li> <li>Explain the benefits of protective gear either using examples from the past, clips from internet or videos</li> <li>Learners use clothes and equipment available whilst assisting in tasks (i.e. weeding, sweeping driveways)</li> <li>Invite a business to demonstrate different types of lawn mowers and equipment to show the learners the various models and their functions</li> </ul>	

		Grade 5 Terr	m 1
WEE	ΤΟΡΙϹ	<b>CONTENT</b> The learner must be able to	Techniques, activities, resources and process notes
		6. Demonstrate basic first aid practices in an emergency situation	<ul> <li>Explain preparation needed for mowing a lawn in an area, i.e. removal of stones/weeds</li> <li>Practical demonstration with lawn mower while learners observe</li> </ul>
		<ul> <li>Mow lawns and cut trees in landscape areas</li> <li>1. Apply the correct methods where mowing/weed eating or cutting trees is needed</li> </ul>	• While learners are taking turns in using lawnmower under strict supervision other learners can rake and collect grass not caught by lawnmower
		<ol> <li>Identify the different types of weed eaters, lawn mowers, chainsaws and how to use them</li> <li>Explain the preparations necessary for mowing</li> </ol>	learners assist
		and cutting small trees – both with regards to protective clothing and safe area to be mowed or	Learners demonstrate with available clothes and equipment
		when trees area to be cut	<ul> <li>Explain how to prevent accidents</li> <li>Demonstration on how to apply first aid in case of work-related</li> </ul>
		Sustaining all agricultural practices needing continuous maintenance	accident
			<ul> <li>Invite a business to demonstrate different types of lawn mowers and equipment to show the learners the various models and their functions</li> <li>Discuss available equipment at school</li> </ul>
			<ul> <li>Learners explain to each other what preparation is needed for mowing a lawn in an area, i.e. removal of stones/weeds and participate in the activity</li> </ul>
			<ul> <li>Practical demonstration with lawn mower while learners observe</li> <li>While learners are taking turns in using lawnmower under strict</li> </ul>

	Grade 5 Term 1			
WEE	TOPIC	<b>CONTENT</b> The learner must be able to	Techniques, activities, resources and process notes	
			<ul> <li>supervision other learners can rake and collect grass not caught by lawnmower</li> <li>Learners demonstrate to each other on caring of and storage of lawnmower</li> <li>Practical demonstration with chainsaw while learners observe and assist</li> <li>Practical demonstration of caring and storage of all equipment used while learners assist</li> <li>Gr 5: 3<sup>er</sup> year</li> <li>Learners demonstrate and explain to each other with available clothes and equipment</li> <li>Learners individually explain to the group that different protective clothing is for specific tasks</li> <li>Learners explain how to prevent accidents</li> <li>Demonstrate how to apply first aid in case of work-related accident where after learners practice on each other</li> <li>Discuss available lawn mowing equipment at school</li> <li>Learners take turns in using the lawnmower under supervision – other learners rake and collect grass not caught by lawnmower</li> <li>Practical demonstration with chainsaw where after learners individually</li> </ul>	

	Grade 5 Term 1			
WEE	TOPIC	<b>CONTENT</b> The learner must be able to	Techniques, activities, resources and process notes	
			work with chainsaw under strict supervision and with assistance from the teacher Learners take care of cleaning and storage of all equipment used	
5	Animal Production	Identify and observe the different breeds of farm         animals         1. Identify the different breeds of farm animals in your area         2. Discuss the visual differences and physical attributes in farm animal species and describe it using own words         3. Explain the functional purpose of the different farm animal species         4. Observe animal behaviour         Care for farm animals         1. Identify equipment required to carry out basic veterinary practices         2. Apply basic veterinary practices in treatment of cuts, wounds and abscesses         3. Identify equipment needed for dipping and deworming	<ul> <li>Gr 5: 1<sup>er</sup> year</li> <li>Use a clip from the internet or dvd, to observe selection of small breeds of farm animals</li> <li>Explain the visual differences in small farm animal breeds</li> <li>Use a poster or books to identify and describe animals using own words</li> <li>Learners practically interact with smaller farm animals while feeding animals by hand where possible</li> <li>Label small breeds of farm animals on a worksheet</li> <li>Identify equipment needed for the different procedures; spray, needles, syringes, drenches, dip, etc.</li> <li>Complete worksheet linking same equipment to each other</li> <li>Demonstrate the different ways to treat, inject, deworm or dip animals</li> <li>Walk amongst animals to identify signs of mating and birthing</li> <li>Explain and demonstrate what to do when birthing problems occur</li> <li>Gr 5: 2<sup>rd</sup> year</li> <li>Use a clip from the internet or dvd, to observe selection of small breeds of farm animals</li> </ul>	
		4. Identify how and when to deworm to prevent tick	Explain the visual differences in small farm animal breeds	

		Grade 5 Terr	m 1
WEE	TOPIC	<b>CONTENT</b> The learner must be able to	Techniques, activities, resources and process notes
WEE			<ul> <li>Use a poster or books to identify and describe animals using own words</li> <li>Learners practically interact with smaller farm animals while feeding animals by hand where possible</li> <li>Label small breeds of farm animals on a worksheet</li> <li>Identify equipment needed for the different procedures; spray, needles, syringes, drenches, dip, etc.</li> <li>Match names of equipment to pictures of equipment on a worksheet</li> <li>Learners assist while teacher demonstrates the different ways to treat, inject, deworm or dip animals</li> <li>Walk amongst animals to identify signs of mating and birthing</li> <li>Explain and demonstrate what to do when birthing occur</li> <li>Gr5: 3<sup>rd</sup> year</li> <li>Use a clip from the internet or dvd, to observe selection of small breeds of farm animals</li> <li>Use a poster or books to identify and describe animals using own words</li> </ul>
			<ul> <li>Learners practically interact with smaller farm animals while feeding animals by hand where possible</li> <li>Label small breeds of farm animals on a worksheet</li> </ul>
_			• Identify equipment needed for the different procedures; spray, needles,

	Grade 5 Term 1			
WEE	TOPIC	<b>CONTENT</b> The learner must be able to	Techniques, activities, resources and process notes	
6	Environmental Practices	<ul> <li><u>Healthy Living: food from the veld</u></li> <li>1. Understand indigenous knowledge re food from the veld</li> <li>2. Identify different wild and leafy vegetables</li> <li>3. Explain the dangers of eating plants that are not identified correctly</li> <li><u>Sustain all agricultural practices needing continuous maintenance</u></li> </ul>	<ul> <li>syringes, drenches, dip, etc. and assist in cleaning equipment</li> <li>Copy names of equipment to appropriate pictures</li> <li>Learners assist while teacher demonstrates the different ways to treat, inject, deworm or dip animals</li> <li>Walk amongst animals to identify signs of mating and birthing</li> <li>Explain and demonstrate what to do when birthing and/or problems occur</li> <li>Demonstrate hoof care while learners assist</li> <li><i>Gr5: f<sup>#</sup> year</i></li> <li>Invite an expertise from a museum/herbarium/community to speak to learners on food from the veld in the surrounding areas</li> <li>Encourage learners to look for plants discussed at their homes or in the vicinity – bring plants to school</li> <li>Explain the dangers of eating plants using a chart or pictures of the different foods from the veld in the surrounding areas</li> <li>Encourage learners to look for plants discussed at their homes or in the vicinity – bring plants to school</li> <li>Explain the dangers of eating plants using a chart or pictures of the different foods from the veld in the surrounding areas</li> <li>Encourage learners to look for plants discussed at their homes or in the vicinity – bring plants to school</li> <li>Explain the dangers of eating plants using a chart or pictures of the different foods from the veld in the surrounding areas</li> <li>Encourage learners to look for plants discussed at their homes or in the vicinity – bring plants to school to propagate (i.e. spekboom/ portulacaria afra/iGwanitsha is a good example to use)</li> <li>Explain the dangers of eating plants using a chart or pictures of the different foods from the veld that are poisonous</li> </ul>	

	Grade 5 Term 1			
WEE	TOPIC	<b>CONTENT</b> The learner must be able to	Techniques, activities, resources and process notes	
7	Business Practices	Apply basic skills in storage management and stocktaking         1. Observe the importance of a tidy storage space       2. Prepare storage space to receive stock through cleaning and disinfecting         3. Identify appropriate space for storage of different products and equipment       4. Understand the prevention of contamination         5. Apply basic stock inventory taking, issuing and receiving of stock       6. Identify the appropriate re-order level and reporting on stock levels for prompt re-ordering	<ul> <li>Gr 5: 3<sup>et</sup> year</li> <li>Invite an expertise from a museum/herbarium/community to speak to learners on food from the veld in the surrounding areas</li> <li>Encourage learners to look for plants discussed at their homes or in the vicinity – bring plants to school to propagate (i.e. spekboom/ portulacaria afra/iGwanitsha is a good example to use)</li> <li>Learners explain the dangers of eating plants to each other with the guidance of the teacher, using a chart or pictures of the different foods from the veld that are poisonous</li> <li>Gr 5: 1<sup>et</sup> year</li> <li>Explain and demonstrate how storage space should be organised to ensure easy access to what is needed for specific activities</li> <li>Assist in organising and tidying storage space</li> <li>Explain reason and show learners why space is allocated for equipment</li> <li>Demonstrate and explain why and how to clean/disinfect areas of storage</li> <li>Explain when is the appropriate time to report about re-ordering</li> <li>Complete a worksheet through ticking next to pictures quantity of stock</li> <li>Gr 5: 2<sup>ett</sup> year</li> <li>Explain and demonstrate how storage space should be organised to ensure easy access to what is needed for specific activities while learners assist</li> </ul>	

Grade 5 Term 1			
WEE	TOPIC	<b>CONTENT</b> The learner must be able to	Techniques, activities, resources and process notes
		Sustain all agricultural practices needing continuous maintenance	<ul> <li>Learners assist in cleaning/disinfecting areas of storage and explain in their own way why it is important</li> <li>Identify the appropriate re-order level and reporting on stock levels for prompt re-ordering</li> <li>Explain the use of simple forms/lists (with pictures) to complete inventory of storage area</li> <li>Learners take stock on own list on worksheet and compare lists to check if the stock taking was done correctly</li> <li><i>Gr5 : 3<sup>rd</sup> year</i></li> <li>Learners explain and demonstrate to younger learners how storage space should be organised to ensure easy access to what is needed for specific activities while teacher guide them in the process</li> <li>Clean and disinfect areas of storage and explain in their own way why it is important</li> <li>Identify the appropriate re-order level and reporting on stock levels for prompt re-ordering</li> <li>Explain the use of simple forms/lists to complete inventory of storage area</li> <li>Learners take stock on own list and compare lists with teacher to practice and check if the stock taking was done correctly</li> </ul>
8	Business Practices	<u>Understand basic costing (income/expenditure)</u> 1. Understand a cash flow budget	<ul> <li>Gr 5 : 1<sup>st</sup> year</li> <li>Discuss the value of keeping regular track of income and expenditure</li> <li>Explain to learners how to keep track of income and expenditure using</li> </ul>

		Grade 5 Terr	m 1
WEE	TOPIC	CONTENT The learner must be able to	Techniques, activities, resources and process notes
		<ol> <li>Understand the different cost aspects to be found in agriculture</li> <li>Understand or assist in drawing up a simple income and expenditure balance sheet</li> <li><u>Understand entrepreneurship in agriculture</u></li> <li>Identify opportunities, outlets and basic requirements of local markets</li> <li>Understand the differences in quality of products and be aware of local preferences</li> <li>Compare prices of various outlet to price a</li> </ol>	<ul> <li>Discuss different kinds of outlets for products; street vendor, cafe, supermarket, fruit and vegetable market, etc</li> <li>After harvesting of produce, learners make lists of all products on a simple format provided by the teacher</li> <li>Discuss and compare quality of products - discuss what to do with produce not appropriate for selling (donations to charity organisations, composting, priced lower, etc)</li> <li>Learners demonstrate their skills in packaging and display of products, getting produce ready for selling to staff members</li> </ul>
		<ul> <li>products</li> <li>4. Understand the importance of packaging and display of products</li> <li>5. Set up and man a stall at an outlet in the immediate community</li> <li><u>Sustain all agricultural practices needing continuous maintenance</u></li> </ul>	<ul> <li>Gr 5: 2<sup>nd</sup> year</li> <li>Discuss the importance of keeping track of income and expenditure with the guidance of the teacher through questions and answers</li> <li>Practise to make entries of income and expenditure on a simple spreadsheet to understand the difference between income and expenditure</li> <li>Discuss different kinds of outlets for products; street vendor, cafe, supermarket, fruit and vegetable market, etc</li> <li>After harvesting of produce, learners make lists of all products on a simple format drawn up by themselves</li> <li>Discuss and compare quality of products - discuss what to do with</li> </ul>

	Grade 5 Term 1			
WEE	TOPIC	<b>CONTENT</b> The learner must be able to	Techniques, activities, resources and process notes	
			<ul> <li>produce not appropriate for selling (donations to charity organisations, composting, priced lower, etc)</li> <li>Learners demonstrate their skills in packaging and display of products, getting produce ready for selling to staff members and parents</li> <li><i>Gr 5 : 3<sup>rd</sup> year</i></li> <li>Explain how to keep track of income and expenditure on a simple spreadsheet with the guidance of the teacher through questions and answers</li> <li>Learners take turns and assist each other in making entries of income and expenditure to</li> <li>Discuss different kinds of outlets for products; street vendor, cafe, supermarket, fruit and vegetable market, etc</li> <li>After harvesting of produce, learners make lists of all products on a simple format drawn up by themselves</li> <li>Discuss and compare quality of products - discuss what to do with produce not appropriate for selling (donations to charity organisations, composting, priced lower, etc)</li> <li>Learners demonstrate in practical activities their skills in packaging and display of products, getting produce ready for selling to staff members, parents and community</li> </ul>	
9		Revise and sustain activities taught in previous weeks and agricultural practices needing continuous	<ul> <li>Gr 5 : 1<sup>st</sup> year</li> <li>Point out safety practices regarding cleaning materials</li> </ul>	

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	Grade 5 Term 1			
WEE	TOPIC	CONTENT The learner must be able to	Techniques, activities, resources and process notes	
		<ul> <li>maintenance</li> <li>1. Understand safety practices regarding fertilizer and cleaning material</li> <li>2. Know how to erect fences and gates</li> <li>3. Identify appropriate soil preparation methods for planting of different crops/fruit</li> <li>4. Apply corrects methods for mowing lawn and care for lawn mowers and chainsaws</li> <li>5. Identify equipment required to carry out basic veterinary practices</li> <li>6. Identify different wild and leafy vegetables</li> <li>7. Apply basic stock inventory taking</li> <li>8. List different kinds of outlets for produce</li> </ul>	<ul> <li>Identify animal predators and discuss what damage they can cause</li> <li>Discuss appropriate space to plant crops/fruit</li> <li>Rake and collect grass not caught by lawn mower</li> <li>Sort various equipment needed for veterinary practices</li> <li>Collect wild leafy vegetables from home or school garden and name them</li> <li>Complete worksheet through ticking next to picture quantity of stock</li> <li>Name pictures of different outlets available</li> <li><i>Gr 5 : 2<sup>nd</sup> year</i></li> <li>Point out safety practices regarding fertilizer</li> <li>Explain reasons for fencing</li> <li>Prepare soil for planting of different crops/fruit</li> <li>Appropriate use, care and storage of lawn mover</li> <li>Name various equipment needed for veterinary practices</li> <li>Propagate wild leafy plants like spekboom</li> <li>Take stock on list on worksheet (either with picture or words depending on the ability of learners)</li> <li>Match names to pictures of different outlets available</li> <li><i>Gr 5 : 3<sup>rd</sup> year</i></li> <li>Point out safety practices regarding storage of cleaning materials and fertilizers</li> <li>Maintain existing fencing</li> </ul>	

	Grade 5 Term 1			
WEE	TOPIC	CONTENT The learner must be able to	Techniques, activities, resources and process notes	
			Prepare soil for planting of different crops/fruit	
			Appropriate care and storage of weed eater and chainsaw	
			Assist in cleaning equipment needed for veterinary practices	
			• Explain the dangers of eating wild plants that are unknown	
			Take stock on list and compare with teacher's list	
			Copy names to pictures of different outlets available	
10	Assessment	The week allocated to formal assessment should be integrated across the nine (9) weeks planned for teaching and learning. The assessment will consist of practical tasks with 80% weighting and informal theoretical assessment with 20% weighting. <a href="https://www.selfattical.com">weighting</a> and informal theoretical assessment with 20% weighting. <a href="https://www.selfattical.com">weighting</a> and informal theoretical assessment with 20% weighting. <a href="https://www.selfattical.com">weighting</a> and informal theoretical assessment with 20% weighting.		

Assessmer	nt			
Assessmer	nt is formally recorded during for	our (4) practical sessions with a	a minimum of four (4) skills reported.	
Learners, r	egardless of abilities, shall be	assessed on the same skill. Th	ne following serves as suggestion of	
skills to rec	ord and report on			
	Gr 5 : 1 <sup>st</sup> year	Gr 5 : 2 <sup>nd</sup> year	Gr 5 : 3 <sup>rd</sup> year	
Week 2	List safety practices	Discuss safety practices	Discuss safety practices:	
	regarding cleaning	regarding fertilizer	cleaning materials/fertilizers	
	materials			
Week 3	Discuss what damage	List reasons for fencing	Maintain existing fencing	
	predators can cause			
Week 4	Rake/collect grass not	List appropriate	Discuss care and storage of	
	caught by lawn mower	use/care/storage of lawn	weed eater/chainsaw	
		mover		
Week 5	Sort equipment needed:		Clean equipment needed for	
	veterinary practices	veterinary practices	veterinary practices	
Week 6	Name wild/leafy vegetables	Propagate wild leafy/plants	Discuss dangers of eating wild	
	from home/school	like spekboom	plants that are unknown	
Week 7	Tick next to picture the quantity of stock	Take stock on list on worksheet	Take stock and compare with teacher's list	
Week 8	Name different outlets	Match names to different	Copy names to different outlets	
	available	outlets available	available	
Four theoretical activities are assessed and recorded, however, a minimum of 1 theoretical activity is				
reported on. The following serves as suggestions of theoretical activities to report on.				
Week 3	Match veterinary equipment	Match picture/names	of Copy names of veterinary	
	on worksheet	veterinary equipment	equipment to pictures	
Week 7	Practise to take stock by	Take stock on list	of Take stock	
	ticking next to picture	names/pictures on worksheet		

## 3.2.6 Grade 5 Term 2

		Grade 5 Ten	m 2
WEEK	TOPIC	CONTENT	Techniques, activities, resources and process notes
-		The learner must be able to	
1	General Farming	<ul> <li><u>Apply basic and general safety practices</u></li> <li>1. Apply personal hygiene</li> <li>2. Understand what basic food safety practices are</li> <li>3. Identify and apply the safety measure regarding the use of basic agricultural tools and equipment</li> <li>4. Understand the basic hygienic requirements</li> </ul>	<ul> <li>Gr 5 : 1<sup>st</sup> year</li> <li>Discuss:</li> <li>Reasons for personal hygiene</li> <li>Basic food safety practices and hand wash techniques</li> <li>Safety measures regarding the use of basic agricultural tools and equipment</li> <li>Hygienic requirement when dealing with organic food</li> <li>Importance of protective clothing</li> </ul>
		<ul> <li>of organic food</li> <li>5. Understand the importance of protective clothing</li> <li><u>Demonstrate an understanding of and/or explain</u> the properties of soil</li> <li>1. Define soil structure and properties</li> <li>2. Understand the qualities and uses of different</li> </ul>	<ul> <li>Learners label different soil types</li> <li>Practical explanations and discussion; learners dig hole to observe different layers of soil in preparation for trench composting</li> <li>Poster of different layers of soil types</li> <li>Learners observe living creatures in soil from an area where soil was neglected to identify the different species with a magnifying glass and compare it with compost rich soil</li> </ul>
		<ol> <li>Soliderstand the qualities and uses of difference soil types</li> <li>Recognise the difference between topsoil and subsoil</li> <li>Name life in the soil study to establish the health of soil</li> </ol>	<ul> <li>Practical explanation and demonstration of process of composting</li> <li>Practical participation by learners in completing the processes</li> <li>Visit sites where different ways of composting is practiced or watch a video clip</li> <li>Practical explanation while learners observe</li> </ul>

		Grade 5 Terr	m 2
WEEK	TOPIC	CONTENT	Techniques, activities, resources and process notes
		The learner must be able to	
			Make a sample of each way of composting while learners assist
		Demonstrate an understanding of soil preparation	• Learners gather available materials and assist in making compost
		and composting and the benefits of adding	heaps
		organic enrichment to the soil	• Learners make or assist and use hand tool in making compost heaps
		1. Identify the reason for soil sampling and	depending on space available
		fertilizing of crops	Gr 5 : 2 <sup>nd</sup> year
		2. Demonstrate an understanding of soil	Discuss:
		preparation	Reasons for personal hygiene
		3. Explain what stockpiling of topsoil is and why	<ul> <li>Basic food safety practices and hand wash techniques</li> </ul>
		it is important	Safety measures regarding the use of basic agricultural tools and
		4. Explain why we till and dig before planting	equipment
		5. Use hand held tools and low-technology	Hygienic requirement when dealing with organic food
		implements for the effective preparation of soil	Importance of protective clothing
		6. Understand the reason for mulching and	
		composting using different methods	• Learners explain different ways of composting with the guidance of the
		7. Understand the process of making of compost	teachers
		8. Understand nutritional needs and deficiencies	• Practical explanations and discussions with the guidance of the
		in plants	teacher; learners dig hole to observe different layers of soil in
		9. Apply natural or chemical fertilizer and/or	preparation for trench composting
		nutrient substances under close supervision	• Learners form groups of four and each group make a poster of different
			layers of soil types, label it and explain the difference to each other
		Sustain all agricultural practices needing	• Learners observe living creatures in soil from an area where soil was
		continuous maintenance	neglected to identify the different species with a magnifying glass and
L	1	r	

		Grade 5 Ten	
WEEK	TOPIC	CONTENT	Techniques, activities, resources and process notes
		The learner must be able to	compare it with compost rich soil
			Practical explanation and demonstration of process of composting
			Practical participation by learners in completing the processes
			Visit sites where different ways of composting is practiced
			Practical explanation while learners observe
			• Divide learners in groups of four, each group make a sample of each
			way of composting while
			Learners gather available materials and assist in making compost
			heaps
			<ul> <li>Learners use hand tools in making compost heaps in groups</li> </ul>
			depending on space available
			Gr 5 : 3 <sup>rd</sup> year
			Discuss:
			Reasons for personal hygiene
			Basic food safety practices and hand wash techniques
			• Safety measures regarding the use of basic agricultural tools and
			equipment
			Hygienic requirement when dealing with organic food
			Importance of protective clothing
			• Learners explain different ways of composting to each other in small
			groups

		Grade 5 Ten	m 2
WEEK	TOPIC	CONTENT	Techniques, activities, resources and process notes
		The learner must be able to	
			• Learners dig hole to observe different layers of soil in preparation for
			trench composting and explain the difference layers to each other as the process progress
			Learners use poster made previous year and explain the difference to
			each other in their own words
			• Learners observe living creatures in soil from an area where soil was
			neglected to identify the different species with a magnifying glass and
			compare it with compost rich soil, use a simple chart to identify the
			different species
			• Practical participation and explanations by learners in completing the
			processes of composting
			Visit sites where different ways of composting is practiced
			Practical explanation while learners observe
			• Divide learners in groups of four, each group make a sample of each
			way of composting while
			• Learners gather available materials and assist in making compost
			heaps
			Learners use hand tools in making compost heaps in groups
			depending on space available
			Gr 5 : 1 <sup>st</sup> year
2	General Farming	Natural and chemical fertilization of soil	Revisit experimental vegetable plots and explain processes to learners:
			one plot treated with fertilizer and one only watered no fertilizer

		Grade 5 Terr	m 2
WEEK	TOPIC	CONTENT	Techniques, activities, resources and process notes
		The learner must be able to	
		1. Identify the reason for soil sampling	• Practical sessions of making different kinds of natural fertilizers and
		2. Understand nutritional needs and deficiencies	applying it to appropriate plants identified and explained by teachers
		in plants	Explain the use of the fluid from worm farm as a natural fertilizer
		3. Identify factors (e.g. soil properties) that	Repack the worm farm
		influence fertilizing for crop health	Learners set up a simple worm farm using 5litre ice-cream tubs
		4. Identify the reason for fertilizing crops	Gr 5 : 2 <sup>nd</sup> year
		5. Understand the process of making and	• Practical sessions of making different kinds of natural fertilizers and
		mineralisation of natural fertilizers using plant	applying it to appropriate plants identified and explained by teachers
		material	Explain the use of the fluid from worm farm as a natural fertilizer
		6. Explain the need of a worm farm as natural	Repack the worm farm
		fertilizer	Learners set up a simple worm farm using 5litre ice-cream tubs
		7. Understand the process of using chemical	• Visit a commercial farm where application of fertilization is done on a
		fertilizers	regular basis
		8. Apply fertilizers to a crop	Explain the needs, benefits and dangers of fertilization
		9. Identify the reason for soil sampling,	Apply chemical fertilizer and nutrient substances under strict
		nutritional needs and deficiencies in plants	supervision
		that influence the need of fertilizing for	Gr 5 : 3 <sup>rd</sup> year
		efficient crop growth	• Learners make different kinds of natural fertilizers and applying it to
			appropriate plants identified and explained by teachers
		Sustain all agricultural practices needing	Explain the use of the fluid from worm farm as a natural fertilizer
		continuous maintenance	Repack the worm farm
			Learners set up a simple worm farm using 5litre ice-cream tubs
			• Visit a commercial farm where application of fertilization is done on a

		Grade 5 Ten	m 2
WEEK	TOPIC	CONTENT	Techniques, activities, resources and process notes
		The learner must be able to	
			regular basis
			<ul> <li>Explain the needs, benefits and dangers of fertilization</li> </ul>
			• Apply chemical fertilizer and nutrient substances under strict
			supervision
			Gr 5 : 1 <sup>st</sup> year
3	Plant Production	Propagate plants from seeds, cuttings and	• Prepare for seed growing explaining the use of seedling containers,
		grafting and planting into open ground	growth media, plant labels
		1. Use tools correctly for every specific crop	<ul> <li>Demonstrate the procedure for growing seeds</li> </ul>
		2. Use equipment correctly in order to space	Explain the procedure and use of correct equipment when
		plants according to the requirements of	transplanting seedlings
		specific plants	Gr 5 : 2 <sup>nd</sup> year
			• Learners prepare for seed growing explaining the use of seedling
		Sustain all agricultural practices needing	containers, growth media, plant labels to each other with teachers
		continuous maintenance	observing and helping learners to explain process
			Demonstrate the procedure for growing seeds while learners assist
			• Learners partake in the procedure of and use of correct equipment
			transplanting seedlings
			• Invite a horticulturist to demonstrate to learners the process of
			preparing cuttings for new plants
			Gr 5 : 3 <sup>rd</sup> year
			• Learners prepare for seed growing explaining the use of seedling
			containers, growth media, plant labels to each other with teacher
			observing and helping learners to explain process
		K	• Demonstrate the procedure for growing seeds where after learners

		Grade 5 Ten	m 2
WEEK	TOPIC	CONTENT	Techniques, activities, resources and process notes
		The learner must be able to	
			complete the process on their own
			• Learners partake in the procedure of and use of correct equipment
			transplanting seedlings
			• Demonstrate to learners the process of preparing cuttings for new
			plants, give learners the opportunity to prepare cuttings on their own
			Invite a horticulturist to demonstrate to learners the process of grafting
			fruit trees
			Gr 5 : 1 <sup>st</sup> year
4	Gardening/	1. Propagate plants from seeds and planting in	Draw up a chart of which plants can be planted during certain periods
	Horticulture	open ground Prepare for various methods of	of the year for the specific area
	Horticulture	seed sowing	Discuss the various seeds available on the market
		2. Sow seeds manually	Explain and demonstrate to learners how to harvest seeds from plants
		3. Apply the correct method of watering and	• Demonstrate to learners how to prepare a plot for sowing seeds
		maintain the ideal environment for	directly
		germination to take place	Plant ornamental seedlings from seed trays on already prepared plots
		4. Select plants from stock pile or nursery and	Invite a landscaper or visit a nursery to observe how plants are spaced
		prepare for planting	and planted
		5. Identify the best time of the day for	
		transplanting	• Use drawings, pictures or clips from internet to discuss environmental
		6. Arrange plants in area where they are to be	conditions appropriate for planting seedlings
		planted	<ul> <li>Use experiment to explain what needs are important for seedlings to</li> </ul>
		7. Follow correct procedure of planting,	survive (one set of plants getting too much water, one too little, one no
		backfilling and watering	sunlight and one set in area with correct conditions)

		Grade 5 Ter	m 2
WEEK	TOPIC	CONTENT	Techniques, activities, resources and process notes
		The learner must be able to	
			• Demonstrate and practise how to apply appropriate watering of
		Care for ornamental seedlings	seedlings
		1. Explain the importance of humidity in the	Gr 5 : 2 <sup>nd</sup> year
		seedling environment	• Draw up a chart of which plants can be planted during certain periods
		2. Explain how to care for seedlings once they	of the year for the specific area, learners work in groups of four to
		have been planted out	make groups posters
		3. Explain why the frequency of water must be	Discuss the various seeds available on the market
		decreased, and light must be increased	Learners explain how to harvest seeds from plants
		4. Explain the effect of the heat on transplanted	• Demonstrate to learners how to prepare a plot for sowing seeds
		seedlings	directly while learners assist
		5. Explain what pricking out is	Plant ornamental seedlings from seed trays on already prepared plots
			Invite a landscaper or visit a nursery to observe how plants are spaced
			and planted
		Sustain all agricultural practices needing	
		continuous maintenance	• Use drawings, pictures or clips from internet to discuss environmental
			conditions appropriate for planting seedlings
			• Use experiment to explain what needs are important for seedlings to
			survive (one set of plants getting too much water, one too little, one no
			sunlight and one set in area with correct conditions)
			Learners practise how to apply appropriate watering of seedlings
			Gr 5 : 3 <sup>rd</sup> year
			• Learners draw up individual charts of which plants can be planted
			during certain periods of the year for the specific area to be used in
		K	future at their homes

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		Grade 5 Terr	m 2
WEEK	TOPIC	CONTENT	Techniques, activities, resources and process notes
		The learner must be able to	
			Discuss the various seeds available on the market
			Harvest seeds from plants
			Prepare a plot for sowing seeds directly while teacher observe
			Plant ornamental seedlings from seed trays on already prepared plots
			Invite a landscaper or visit a nursery to observe how plants are spaced
			and planted
		4	• Use drawings, pictures or clips from internet to discuss environmental
			conditions appropriate for planting seedlings
			• Use experiment to explain what needs are important for seedlings to
			survive (one set of plants getting too much water, one too little, one no
			sunlight and one set in area with correct conditions)
			• Learners explain to each other how to apply appropriate watering of
			seedlings
			Gr 5 : 1 <sup>st</sup> year
5	Gardening/	Propagate, plant and establish ornamental plants	• Identify an appropriate area as well as plants to be propagated or
		and trees from containers into open ground	planted, i.e. shade or full sun
	Horticulture 1. Explain the criteria to be used when selecting plants for planting out	• Demonstrate how to prepare area where plants or trees are to be	
		plants for planting out	transplanted
		2. Select plants from stockpile or nursery and	• Explain importance of soil preparation and watering to ensure plants to
		prepare for planting of plants/shrubs or trees	survive transplant process
		3. Arrange plants in the areas where they are to	• Give instructions to learners on how to prepare the soil and what
			procedures to be followed before, during and after plants are planted

		Grade 5 Ten	m 2
WEEK	TOPIC	CONTENT	Techniques, activities, resources and process notes
		The learner must be able to	
		be transplanted	Gr 5 : 2 <sup>nd</sup> year
		4. Prepare a suitable hole to plant in	• Make use of questions and answers to explain to learners on how to
		5. Explain the reason for soaking plants before	prepare the soil and what procedures to be followed before, during and
		transplanting	after plants are planted
		6. Follow correct procedure of planting,	• Explain and demonstrate to learners how to transplant and irrigate
		backfilling and watering	plants to have a better chance of survival
			Learners follow instructions and transplant plants under supervision
		Sustain all agricultural practices needing	Gr 5 : 3 <sup>rd</sup> year
		continuous maintenance	Learners explain to younger learners and assist in how to prepare the
			soil and what procedures to be followed before, during and after plants
			are planted
			Learners transplant plants guiding one another on correct procedures
			Gr 5 : 1 <sup>st</sup> year
6	Animal Production	Demonstrate an understanding of healthy farm	• Identify the different farm animals found within the area as well as the
		animals and their purpose on a farm	difference within a species - e.g. layers or braai chickens/dairy and
		1. Identify the visual differences in farm animal	beef or dairy cattle
		species and describe using own words	• Discuss the functional purpose of the different animals on a farm (use
		2. Identify the visual differences in farm animal	a chart with different products as visual resource)
		breeds within species and describe using own	• Explain the negative effects of endo/ecto-parasites on the health of
		words	animals and the causes of slow growth and disease on hand of visual
		3. Explain the functional purpose of farm animal	clips from internet
		species	
		4. Recognise external sign of good health in	• Learners observe and discuss reasons for mating behaviour in male
			and female animals in a group, using a dvd or clips from the internet

		Grade 5 Ten	m 2
WEEK	TOPIC	CONTENT	Techniques, activities, resources and process notes
		The learner must be able to	
		farm animals	Learners observe and discuss reasons for abnormal mating behaviour
		5. Report the presence of ecto-parasites	in male and female animals in a group, using a dvd or clips from the
		6. Record the growth and production rate of farm	internet
		animals	Explain to learners the importance of reporting behaviour to supervisor
			Discuss successful mating amongst breeding animals
		Recognise basic breeding behaviour of farm	
		animals	• Use visual resources while discussing the importance, reasons and
		1. Observe normal and abnormal mating	structures used for shelter/housing structures
		behaviour	Name the different structures used for housing and complete a
		2. Identify successful mating amongst breeding	worksheet linking animal to their appropriate housing structures
		animals	Learners demonstrate the application of appropriate bedding materials
		3. Observe breeding animals for post breeding	to each other, while teacher is coaching them through questioning
		behaviour	Gr 5 : 2 <sup>nd</sup> year
		4. Report observation of mating and post	• Identify and name the different farm animals found within the area as
		breeding behaviour to supervisor	well as the difference within a species - e.g. layers or braai
			chickens/dairy and beef or dairy cattle
		Apply basic animal husbandry practices	• Explain the functional purpose of the different animals on a farm (use a
		1. Describe procedures to follow and prepare for	chart with different products as visual resource)
		the build of animal housing	• Discuss the negative effects of endo/ecto-parasites on the health of
		2. Apply appropriate bedding material an	animals and the causes of slow growth and disease on hand of visual
		temperature control to the animal housing	clips from internet
		3. Demonstrate how to care for young animals	
		4. Apply appropriate feeding methods for	Observe and discuss reasons for mating behaviour in male and female

		Grade 5 Ten	m 2
WEEK	TOPIC	CONTENT	Techniques, activities, resources and process notes
		The learner must be able to	
		different stages of animal production	animals in a group, using a dvd or clips from the internet
			Observe and discuss reasons for abnormal mating behaviour in male
		Sustain all agricultural practices needing	and female animals in a group, using a dvd or clips from the internet
		continuous maintenance	Explain to learners the importance of reporting behaviour to supervisor
			Discuss successful mating amongst breeding animals
			• Use visual resources while discussing the importance, reasons and
			structures used for shelter/housing structures
			Name the different structures used for housing and complete a
			worksheet linking animal to their appropriate housing structures
			• Learners demonstrate the application of appropriate bedding materials
			to each other, while teacher is coaching them through questioning
			Gr 5 : 3 <sup>rd</sup> year
			• Identify and name the different farm animals found within the area as
			well as the difference within a species – e.g. layers or braai
			chickens/dairy and beef or dairy cattle
			• Explain the functional purpose of the different animals on a farm (use a chart with different products as visual resource)
			• Discuss the negative effects of endo/ecto-parasites on the health of
			animals and the causes of slow growth and disease on hand of visual
			clips from internet
			Observe and discuss reasons for mating behaviour in male and female

		Grade 5 Terr	m 2
WEEK	TOPIC	CONTENT	Techniques, activities, resources and process notes
		The learner must be able to	
			animals in a group, using a dvd or clips from the internet
			Observe and discuss reasons for abnormal mating behaviour in male
			and female animals in a group, using a dvd or clips from the internet
			Explain to learners the importance of reporting behaviour to supervisor
			Discuss successful mating amongst breeding animals
			• Use visual resources while discussing the importance, reasons and
		4	structures used for shelter/housing structures
			Name the different structures used for housing and complete a
			worksheet linking animal to their appropriate housing structures
			• Explain drawing of a chicken run on a worksheet. Learners
			measure/list materials needed to build the structure (measurements
			scaled down on worksheet
			Assist in building a simple structure for i.e. chickens
			• Demonstrate the application of appropriate bedding materials to each
			other, while teacher is coaching them through questioning
			Gr 5 : 1 <sup>st</sup> year
7	Nature and	Nature and Biodiversity: soil conservation	• Describe the different types of soil degradation with the use of visual
	Biodiversity	1. Understand types and physical processes of	resources (pictures, videos, clips from internet)
		soil degradation, i.e. soil erosion, soil	Discuss the causes of soil degradation
		compaction, soil pollution	• Explain soil erosion using experiment (search internet/pinterest for
		2. List the causes of soil degradation	example)
		3. Explain the importance of soil conservation for	Gr 5 : 2 <sup>nd</sup> year
			• Describe the different types of soil degradation with the use of visual

		Grade 5 Ten	m 2
WEEK	TOPIC	CONTENT	Techniques, activities, resources and process notes
		The learner must be able to	
		agricultural productivity	resources (pictures, videos, clips from internet)
		Sustain all agricultural practices needing	Discuss the causes of soil degradation
		continuous maintenance	• Learners set up experiment on soil erosion (search internet/pinterest
			for example) while teacher explain the process to them
			Gr 5 : 3 <sup>rd</sup> year
			Learners describe the different types of soil degradation with the use of
			visual resources (pictures, videos, clips from internet)
			Discuss the causes of soil degradation
			• Learners set up experiment on soil erosion (search internet/pinterest
			for example) explaining the process to the teacher
			Gr 5 : 1 <sup>st</sup> year
8	Business Practises	1. Apply basic skills in storage management and	Discuss and explain how storage space should be organised to ensure
		stocktaking_Prepare storage space to receive	easy access to equipment needed
		stock through cleaning and disinfecting	Assist in organising storage space
		2. Identify appropriate space for storage of	• After harvesting of produce, learners assist in making a list of all
		different products and equipment	products roughly on an empty page
		3. Understand the prevention of contamination	• Discuss and compare quality of products with products available in
		4. Apply basic stock inventory taking, issuing	retail
		and receiving of stock	• Discussions and learners assist in practical application of activities
		5. Identify the appropriate re-order level and	regarding packaging and display of products
		reporting on stock levels for prompt re-	
		ordering	• Explain to learners how to draw up a basic budget reflecting
			expenditure and income
		Understand basic costing (income/expenditure)	Use simple spreadsheet/journal to explain the concept

		Grade 5 Terr	m 2
WEEK	TOPIC	CONTENT	Techniques, activities, resources and process notes
		The learner must be able to	
		1. Demonstrate how to draw up a basic budget	
		reflecting expenditure and income	<ul> <li>Make use of produce to practically discuss and compare the quality of products</li> </ul>
		Understand entrepreneurship in agriculture	Have products and pricelist from an outlet in the community available
		1. Be familiar with opportunities, outlets and	to discuss pricing of a product. Make learners aware of the cost of
		basic requirements of local markets	expenses in the process of cultivating product
		2. Understand the differences in quality of	• Discuss the importance of packaging using samples from the industry.
		products and be aware of local preferences	Point out what materials are available through implementing recycling
		3. Compare prices of various outlet to price a	to reduce cost
		products	Learners assist in the setting up of a stall
		4. Understand the importance of packaging and	Gr 5 : 2 <sup>nd</sup> year
		display of products	• Learners practically explain how to organise storage space to ensure
		5. Set up and man a stall at an outlet in the	easy access to equipment needed
		immediate community	Learners organise storage space on instruction of teacher
			• After harvesting of produce, learners make a list of all products roughly
		Sustain all agricultural practices needing	on an empty page
		continuous maintenance	• Learners discuss and compare quality of products with products
			available in retail
			• Learners practically pack produces in appropriate way and display
			produce correctly while teacher supervise
			- Evolution to logrange how to draw up a basic budget reflecting
			Explain to learners how to draw up a basic budget reflecting
			expenditure and income

		Grade 5 Ten	m 2
WEEK	TOPIC	CONTENT	Techniques, activities, resources and process notes
		The learner must be able to	
			• Learners use simple spreadsheet/journal to implement the concept by
			following the teachers instructions
			• Make use of produce to practically discuss and compare the quality of
			products
			• Have products and pricelist from an outlet in the community available
			to discuss pricing of a product. Make learners aware of the cost of
			expenses in the process of cultivating product
			Discuss marketing skills needed
			Discuss the importance of packaging using samples from the industry
			• Point out what materials are available through implementing recycling
			to reduce cost
			• Learners set up a stall at school for teachers and parents to support by
			buying their produce
			Gr 5 : 3 <sup>rd</sup> year
			Learners practically organise storage space to ensure easy access to
			equipment needed while teacher observe
			• After harvesting of produce, learners make a list of all products roughly
			on an empty page, transfer the list to a more formal worksheet or to a
			simple spreadsheet on the computer
			• Learners discuss/compare quality of products with products available
			in retail and price produce
		_	• Learners practically pack produces in appropriate way and display

		Grade 5 Terr	n 2
WEEK	TOPIC	CONTENT	Techniques, activities, resources and process notes
		The learner must be able to	
			<ul> <li>produce correctly while teacher supervise</li> <li>Learners draw up a basic budget reflecting expenditure and income</li> <li>Learners use simple spreadsheet/journal to implement the concept by following the teachers instructions</li> <li>Make use of produce to practically discuss and compare the quality of products</li> <li>Have products and pricelist from an outlet in the community available to discuss pricing of a product. Make learners aware of the cost of expenses in the process of cultivating product</li> <li>Discuss the importance of packaging using samples from the industry</li> <li>Point out what materials are available through implementing recycling to reduce cost</li> <li>Learners practise marketing skills at school and in the community</li> <li>Learners set up a stall at school for teachers and parents to support by buying their produce</li> </ul>
9		Revise and sustain activities taught in previousweeks and agricultural practices needingcontinuous maintenance1. Understand soil preparation	<ul> <li>Gr 5 : 1<sup>st</sup> year</li> <li>Identify and name different methods of composting</li> <li>Make different kinds of natural fertiliser</li> <li>Prepare for seed growing</li> </ul>
		<ol> <li>Process of making natural fertilisers</li> </ol>	<ul> <li>Identify appropriate area to plant</li> <li>Name and identify the different structures used for housing of animals</li> </ul>

		Grade 5 Terr	m 2
WEEK	TOPIC	CONTENT	Techniques, activities, resources and process notes
		The learner must be able to3. Propagate plants from seeds/cutting and	Describe the different types of soil degradation
		grafting	<ul> <li>Explain the importance and appropriateness of packaging in the</li> </ul>
		4. Prepare for planting of plants/shrubs/trees	
		5. Procedure to follow and preparation for the	industry
		building of animal housing	Gr 5 : 2 <sup>nd</sup> year
			<ul> <li>Explain different methods of composting with guidance of teacher</li> </ul>
		6. Soil degradation, i.e. soil erosion, soil	
		compaction and soil pollution	
		7. Importance of packaging and display of	
		products	<ul> <li>Prepare soil for planting and explain procedures to be followed</li> </ul>
			<ul> <li>Explain the importance and reasons for animal housing</li> </ul>
			Discuss the causes of soil degradation
			Practically pack produce
			Gr 5 : 3 <sup>d</sup> year
			Learners explain different methods of composting to each other
			Explain the use of the fluid from worm farm as a natural fertiliser
			Prepare cuttings for new plants
			Transplant plants/shrubs/trees according to correct procedure
			Explain the process of building a simple structure for animal housing
			Discuss process of experiment on soil erosion
			Set up a stall for selling produce
			1
10	Assessment	The week allocated to formal assessment should I	be integrated across the nine (9) weeks planned for teaching and learning.
		The assessment will consist of practical tasks with 8	30% weighting and informal theoretical assessment with 20% weighting.
		ľ	

	Grade 5 Term 2			
WEEK	TOPIC	CONTENT	Techniques, activities, resources and process notes	
		The learner must be able to		
	Sustain all agricultural practices needing continuous maintenance			

## Assessment

Assessment is formally recorded during four (4) practical sessions with a minimum of four (4) skills reported. Learners, regardless of abilities, shall be assessed on the same skill. The following serves as suggestion of skills to record and report on.

	Gr 5 : 1 <sup>st</sup> year	Gr 5 : 2 <sup>nd</sup> year	Gr 5 : 3 <sup>rd</sup> year
Week 2	Make different kinds of natural	Repack the worm farm	Use fluid from worm farm as
	fertilizer		natural fertilizer
Week 3	Prepare for seed growing	Transplant seedlings	Prepare cuttings for new plants
Week 4	Plant ornamental seedlings	Apply appropriate watering	
	from seed trays	of seedlings	Apply appropriate watering of
			seedlings
Week 5	Prepare area where plants or	Prepare soil and use	
Weeke	trees are to be transplanted	procedures before, during	Prepare soil and use
		and after plants are planted	procedures before, during and
			after plants are planted
Week 6	Identify and name different	Discuss the importance and	Assist in building simple
	structures used for	reasons used for	structure for i.e. chickens
	shelter/housing	shelter/housing	
Week 7	Describe the different types of	Explain the causes of soil	Set up an experiment on soil
	soil degradation	degradation	erosion
Week 8	Explain the importance of	Practically pack produce	Display packed produce in
	appropriate packaging		appropriate way

Four theoretical activities are assessed and recorded, however, a minimum of 1 theoretical activity is reported on. The following serves as suggestions of theoretical activities to report on.

Week 6	Link animals to appropriate	Link animals and their names	Measure the material needed
	shelter/housing structures	to appropriate shelter/housing	to build a shelter/structure
	on a worksheet	structure on a worksheet	scaled down on a worksheet
Week 8	Complete simple	Complete simple	Draw up simple
	spreadsheet/journal to	spreadsheet/journal to explain	spreadsheet/journal to explain
	explain a basic budget	a basic budget reflecting	a basic budget reflecting
	reflecting expenditure and	expenditure and income	expenditure and income
	income using a completed		
	worksheet as reference		

## 3.2.7 Grade 5 Term 3

		Grade 5 Terr	m 3
WEEK	ТОРІС	<b>CONTENT</b> The learner must be able to	Techniques, activities, resources and process notes
1	General Farming	<ul> <li><u>Apply basic and general safety practices</u></li> <li>1. Apply personal hygiene</li> <li>2. Understand what basic food safety practices are</li> <li>3. Identify and apply the safety measure regarding the use of basic agricultural tools and equipment</li> <li>4. Understand the basic hygienic requirements of organic food</li> <li>5. Understand the importance of protective clothing</li> <li><u>Describe and recognise the roles and requirements of water in plants</u></li> <li>1. Explain how the amount of water and frequency of watering influences the growth of a plant</li> <li>2. Identify the water requirements of different plants</li> </ul>	<ul> <li>Importance of protective clothing</li> <li>Discuss the water requirements of different plants using the garden and pot plants as examples</li> <li>Explain reasons for the correct time of day to water plants using pictures as resources</li> <li>Discuss effects of watering as well as amount of watering during different seasons</li> <li>Water plants during different times of the day as an experiment to observe how plants react and how long soil will stay moist (take a sequence of photos to display if possible)</li> </ul>

		Grade 5 Ten	m 3
WEEK	ТОРІС	<b>CONTENT</b> The learner must be able to	Techniques, activities, resources and process notes
		3. Select the right method of watering and the	Gr 5 : 2 <sup>nd</sup> year
		correct time of day to water plants	Discuss:
		4. Explain how climatic conditions affect	Reasons for personal hygiene
		watering	Basic food safety practices and hand wash techniques
		5. Analyse how different types of soil affect	• Safety measures regarding the use of basic agricultural tools and
		watering of plants	equipment
			Hygienic requirement when dealing with organic food
		Sustain all agricultural practices needing	Importance of protective clothing
		continuous maintenance	
			Learners discuss and explain the water requirements of different plants
			to each other, using the garden and pot plants as examples
			• Explain reasons for the correct time of day to water plants using
			pictures as resources
			• Discuss effects of watering as well as amount of watering during
			different seasons
			• Water plants during different times of the day as an experiment to
			observe how plants react and how long soil will stay moist (take a
			sequence of photos to display if possible)
			• Learners record the reaction of plants through drawing their own
			sequence of observation
			• Irrigate the crops which were planted with appropriate watering
			method. Turns are made so as to give all a chance

	Grade 5 Term 3		
WEEK	ТОРІС	<b>CONTENT</b> The learner must be able to	Techniques, activities, resources and process notes
			<ul> <li>Gr 5: 3<sup>rd</sup> year</li> <li>Discuss:</li> <li>Reasons for personal hygiene</li> <li>Basic food safety practices and hand wash techniques</li> <li>Safety measures regarding the use of basic agricultural tools and equipment</li> <li>Hygienic requirement when dealing with organic food</li> <li>Importance of protective clothing</li> <li>Learners discuss and explain the water requirements of different plants to each other, using the garden and pot plants as examples</li> <li>Learners explain to teacher the reasons for the correct time of day to water plants using pictures as resources</li> <li>Discuss effects of watering as well as amount of watering during different seasons</li> <li>Water plants during different times of the day as an experiment to observe how plants react and how long soil will stay moist (take a sequence of photos to display if possible)</li> <li>Learners irrigate the crops which were planted with appropriate watering method. Turns are made so as to give all a chance</li> </ul>

	Grade 5 Term 3			
WEEK	ТОРІС	<b>CONTENT</b> The learner must be able to	Techniques, activities, resources and process notes	
2	General Farming	<ul> <li>Identify different methods of irrigation appropriate to environmental circumstances and installing of irrigation if appropriate</li> <li>1. Identify an irrigation system for a specific area</li> <li>2. Explain an understanding of irrigation w.r.t crop yield</li> <li>3. Design a layout for the most effective use of piping for an area</li> <li>4. Explain how water pressure and friction affect the piping used for irrigation</li> <li>5. Explain why certain fittings are used in different cases</li> <li>6. Install an irrigation system for a specific area</li> <li>7. Irrigate a crop to maintain standard moisture content</li> <li>Sustain all agricultural practices needing continuous maintenance</li> </ul>	Discuss which irrigation system would be suitable and affordable to the	

	Grade 5 Term 3			
WEEK	TOPIC	<b>CONTENT</b> The learner must be able to	Techniques, activities, resources and process notes	
			in an area, explain to learners as the process progress	
			Irrigate crops according to specific needs	
			*Activity for enrichment - visit a farm where industrial irrigation is used or a	
			garden where different irrigation methods are used	
			Gr 5 : 3 <sup>rd</sup> year	
			Discuss different forms of irrigation that can be used in specific areas	
			- hose pipes	
			- sprayers	
			- industrial irrigation	
			• Show learners samples of the different components used in industrial	
			irrigation	
			Discuss which irrigation system would be suitable and affordable to the	
			schools needs	
			Design a small layout explaining the effective use of piping for irrigation	
			in an area, explain to learners as the process progress	
			Irrigate crops according to specific needs	
			*Activity for enrichment - visit a farm where industrial irrigation is used or a	
			garden where different irrigation methods are used	

hniques, activities, resources and process notes
<ul> <li>1<sup>st</sup> year</li> <li>Identify and name common types of weeds in garden (either in general garden, or gardens to be, or in gardens neglected over a holiday period)</li> <li>Learners demonstrate and explain manual weeding</li> <li>Perform manual weeding according to workplace procedures i.e. hand pull, hoe and slash to required height</li> <li>Practically participation in weeding of individual plots in group garden</li> <li>Handle and dispatch waste from weeding process according to workplace procedures</li> <li>acher's tip: each learners choose 5 weeds, dry the weeds in old obone directories, visit a herbarium for assistance in identifying the es and write the names next to the weed</li> <li>2<sup>rdt</sup> year</li> <li>Identify and name common types of weeds in garden and discuss alternative ways to manual weeding to eradicating it (use photos, pictures from magazines or internet clips)</li> <li>Discuss and identify safety equipment as well as safety precautions when chemical weeding is selected (wearing of masks and goggles)</li> <li>Demonstrate the use of equipment</li> <li>Handle and dispatch waste from weeding process according to workplace procedures</li> </ul>
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		Grade 5 Terr	m 3
WEEK	ТОРІС	<b>CONTENT</b> The learner must be able to	Techniques, activities, resources and process notes
		condition and report defaults i.e. sharpening	
		or minor repairs	*Teacher's tip: encourage learners to find out what the traditional uses for
		8. Handle and dispatch waste from weeding	some weed are in their communities
		process according to workplace procedures	
			*Activity for enrichment – visit a farm where chemical weeding is used to
		Sustain all agricultural practices needing	observe the process
		continuous maintenance	Gr 5 : 3 <sup>d</sup> year
			Identify and name common types of weeds in garden and discuss
			alternative ways to manual weeding to eradicating it (use photos,
			pictures from magazines or internet clips)
			• Discuss and identify safety equipment as well as safety precautions
			when chemical weeding is selected (wearing of masks and goggles)
			Learners observe and assist in chemical weeding where needed
			• Explain and demonstrate the importance of leaving equipment in a safe
			and ready to use condition and report defaults i.e. sharpening or minor
			repairs
			Handle and dispatch waste from weeding process according to
			workplace procedures
			*Teacher's tip: encourage learners to find out what the traditional uses for
			some weed are in their communities or invite a member of the community
			who is knowledgeable about the uses of weeds for medicinal or gardening
			purposes

	Grade 5 Term 3		
WEEK	TOPIC	<b>CONTENT</b> The learner must be able to	Techniques, activities, resources and process notes
<b>WEEK</b> 4	TOPIC Plant Production		<ul> <li>*Activity for enrichment – visit a farm where chemical weeding is used to observe the process</li> <li>Gr 5: 1<sup>st</sup> year</li> <li>Poster with illustrations of tools to be used</li> <li>Demonstrate how to use equipment correctly</li> <li>Use available tools and a plant line for process of planting Crops suitable to be planted are identified – either seeds or seedlings</li> <li>Demonstrate differences in process of sowing seeds and planting seedlings</li> <li>Demonstrate suitable (companion/intercropping) planting where after learners individually plant crops according to specific instructions</li> <li>Explain rotation planting of crops on hand of an illustration</li> </ul>
		<ol> <li>5. Explain differences in process of sowing seeds and planting seedlings</li> <li>6. Understand the basic effect of temperature on plant material</li> <li>7. Identify plants suffering from root shock and explain the cause</li> </ol>	<ul> <li>Explain reason for keeping plant material ready for planting moist and sheltered with experiment</li> <li>Show learners how to handle seedlings correctly</li> <li>Provide newly planted material with sufficient water shortly after planting</li> <li>Remove and replace newly planted material that will not survive</li> </ul>

Grade 5 Term 3			
WEEK	ТОРІС	<b>CONTENT</b> The learner must be able to	Techniques, activities, resources and process notes
		Handle planting material correctly for the	Remove diseased plants from the planting area to prevent contact with
		successful establishment of a specific crop	healthy plants
		1. Explain why plant material ready for planting	Gr 5 : 2 <sup>nd</sup> year
		is kept moist and sheltered	Poster with illustrations of tools to be used
		2. Provide newly planted material with sufficient	Learners demonstrate to each other on how to use equipment correctly
		water shortly after planting	• Learners use available tools and a plant line for process of planting
		3. Remove and replace newly planted material	Crops suitable to be planted are identified – either seeds or seedlings
		that will not survive	• Demonstrate differences in process of sowing seeds and planting
		4. Remove diseased plants from the planting	seedlings
		area to prevent contact with healthy plants	• Practical demonstration of suitable (companion/intercropping) planting
			where after learners individually plant crops according to specific
		Sustain all agricultural practices needing	instructions
		continuous maintenance	• Prepare a small area to be used for rotation planting of crops after
			discussing rotation planting on hand of an illustration
			Explain to pupils the effect if spacing of crops is not done correctly
			Plant different crops
			Water plants with different equipment available
			• Explain reason for keeping plant material ready for planting moist and
			sheltered with experiment
			Show learners how to handle seedlings correctly
			Provide newly planted material with sufficient water shortly after
			planting

	Grade 5 Term 3		
WEEK	ТОРІС	<b>CONTENT</b> The learner must be able to	Techniques, activities, resources and process notes
			<ul> <li>Remove and replace newly planted material that will not survive</li> <li>Remove diseased plants from the planting area to prevent contact with healthy plants</li> <li><i>Gr5: 3<sup>rd</sup> year</i></li> <li>Learners demonstrate to each other on how to use equipment correctly</li> <li>Use available tools and a plant line for process of planting Crops suitable to be planted are identified – either seeds or seedlings</li> <li>Demonstrate differences in process of sowing seeds and planting seedlings</li> <li>Practical demonstration of suitable (companion/intercropping/rotation) planting where after learners individually plant crops according to specific instructions</li> <li>Explain the effect if spacing of crops is not done correctly</li> <li>Plant different crops</li> <li>Water plants with different equipment available</li> <li>Explain reason for keeping plant material ready for planting moist and sheltered with experiment</li> <li>Show learners how to handle seedlings correctly</li> <li>Provide newly planted material with sufficient water shortly after planting</li> <li>Remove and replace newly planted material that will not survive</li> </ul>

Grade 5 Term 3			
WEEK	TOPIC	<b>CONTENT</b> The learner must be able to	Techniques, activities, resources and process notes
5	Plant Production Gardening/Horticulture		<ul> <li>healthy plants</li> <li>Gr 5: 1<sup>st</sup> year</li> <li>Discuss water requirements of different plants/crops on school grounds</li> <li>Identify and explain irrigation methods used on school ground</li> <li>Maintain irrigation according to needs of plants/crops on a regular basis</li> <li>Explain the importance of creating or collecting available resource material is explained (i.e. dry grass, old newspapers)</li> <li>Discuss the names and functions of commonly used plants in the permaculture context with examples or pictures</li> <li>Explain the characteristics and life cycles of some soil organisms with charts</li> <li>Demonstrate the basic way of preparing a plot in a small garden for permaculture planting (dig plot over, add manure, cover with wet newspaper and then cover it with dry grass) with the guidance of the teacher</li> <li>Plant seedlings while younger learners and teacher observe</li> <li>Gr 5: 2<sup>nd</sup> year</li> <li>Discuss water requirements of different plants/crops on school grounds</li> <li>Identify and explain irrigation methods used on school ground</li> <li>Maintain irrigation according to needs of plants/crops on a regular basis</li> </ul>

	Grade 5 Term 3			
WEEK	ТОРІС	<b>CONTENT</b> The learner must be able to	Techniques, activities, resources and process notes	
		Sustain all agricultural practices needing continuous maintenance	<ul> <li>Prepare a plot in a small garden for permaculture planting (dig plot over, add manure, cover with wet newspaper and then cover it with dry grass) with the guidance of the teacher</li> <li>Plant seedlings while teacher guide and observe</li> <li>Explain the advantages of permaculture regarding food security within communities</li> <li>Demonstrate how to plan and make a garden only using the available materials</li> <li>Prepare an area where the permaculture principles are used</li> <li>Describe and name plants that repel insects</li> </ul>	
			<ul> <li>Discuss water requirements of different plants/crops on school grounds</li> <li>Identify and explain irrigation methods used on school ground</li> <li>Maintain irrigation according to needs of plants/crops on a regular basis</li> <li>Explain what their understanding is of permaculture gardening</li> <li>Plant plants/seedling using permaculture principles</li> <li>Describe pests and ecological ways to combat them – naming and</li> </ul>	
			planting certain plants to repel insects	
6	Animal Production	Observe, handle and move of farm animals	<ul> <li>Gr 5 : 1<sup>st</sup> year</li> <li>Practical demonstrations using video clips of animal behaviour</li> <li>Learners partake in practical activities in handling and moving of small</li> </ul>	

	Grade 5 Term 3			
WEEK	WEEK     TOPIC     CONTENT       The learner must be able to     The learner must be able to		Techniques, activities, resources and process notes	
		<ol> <li>Demonstrate and observe animal behaviour and physical attributes</li> <li>Demonstrate the ability to move animals in a controlled manner</li> <li>Explain the use and purpose of a restraining facility</li> <li>Demonstrate the handling and restraint of an animal</li> <li>Identify the equipment needed to restrain animals – immobiliser or neck clamp</li> <li>Discuss the effect of incorrect handling on farm animals (harm and effect)</li> </ol>	<ul> <li>breeds of farm animals</li> <li>Demonstrate and practise how to walk between animals so that they remain calm. He/she explains how he positions himself so that animals can start moving in a controlled manner</li> <li>Watch a video of defensive behaviour in animals or visit a farm where the defensive behaviour of animals is shown to them</li> <li>Select pictures or videos of injuries caused by animals to highlight the importance of safety when working with animals</li> <li>Demonstrate the handling of relevant equipment to manage animals allowing learners to practice working with equipment under supervision</li> </ul>	
		<ul> <li><u>Recognise defensive behaviour in animals</u></li> <li>1. Describe anatomical features that are used in defensive behaviour e.g. hooves, fangs</li> <li>2. Identify symptoms and causes of defensive behaviour in animals</li> <li>3. Describe the methods used to reduce the manifestation of defensive behaviour in animals</li> <li>4. Describe and handle relevant equipment to manage animals</li> </ul>	<ul> <li>Label different types of feed</li> <li>Explain reasons for reporting feed levels and irregularities</li> <li>Assist in selecting suitable feed type and quantity for specific animals</li> <li>Assist in preparing and filling feeding/drinking troughs</li> <li>Practical session where learners feed the animals while teacher is guiding them</li> <li>Describe how to maintain water, feed supplies and feeding equipment</li> <li>*Activity for enrichment – a visit by an animal feed consultant/agent is advised and will benefit the teaching process</li> </ul>	

	Grade 5 Term 3			
WEEK	ТОРІС	<b>CONTENT</b> The learner must be able to	Techniques, activities, resources and process notes	
		<ul> <li>Apply standard animal feeding procedures</li> <li>1. Demonstrate the ability to report of feed levels</li> <li>2. Identify and report on irregularities</li> <li>3. Select appropriate feed type and quantity</li> <li>4. Demonstrate the ability to identify spoilage in feed</li> <li>5. Apply correct feeding practices under supervision</li> <li>6. Maintain water, feed supplies and feeding equipment</li> <li>Sustain all agricultural practices needing continuous maintenance</li> </ul>	<ul> <li>Practical demonstrations using video clips of animal behaviour</li> <li>Learners partake in practical activities in handling and moving of small breeds of farm animals</li> <li>Demonstrate and practise how to walk between animals so that they remain calm. He/she explains how he positions himself so that animals can start moving in a controlled manner</li> <li>Learners watch a video of defensive behaviour in animals or visit a farm where the defensive behaviour of animals is shown to them</li> <li>Select pictures or videos of injuries caused by animals to highlight the importance of safety when working with animals</li> <li>Demonstrate the handling of relevant equipment to manage animals allowing learners to practice working with equipment under supervision</li> <li>Label different types of feed</li> <li>Explain reasons for reporting feed levels and irregularities</li> <li>Learners prepare and fill feeding/drinking troughs</li> <li>Practical session where learners feed the animals while teacher is guiding them</li> <li>Report and assist in maintaining water, feed supplies and feeding equipment</li> </ul>	

	Grade 5 Term 3			
WEEK	WEEK         TOPIC         CONTENT           The learner must be able to         The learner must be able to		Techniques, activities, resources and process notes	
			<ul> <li>*Activity for enrichment – a visit by an animal feed consultant/agent is advised and will benefit the teaching process</li> <li>Gr 5: 3<sup>rd</sup> year</li> <li>Practical demonstrations using video clips of animal behaviour</li> <li>Learners partake in practical activities in handling and moving of small breeds of farm animals</li> <li>Demonstrate and practise how to walk between animals so that they remain calm. He/she explains how he positions himself so that animals can start moving in a controlled manner where after learners interact with the animals in the same way</li> <li>Learners watch a video of defensive behaviour in animals or visit a farm where the defensive behaviour of animals is shown to them</li> <li>Select pictures or videos of injuries caused by animals to highlight the importance of safety when working with animals</li> <li>Demonstrate the handling of relevant equipment to manage animals allowing learners to practice working with equipment under supervision</li> <li>Label different types of feed</li> <li>Explain reasons for reporting feed levels and irregularities</li> <li>Learners select suitable feed type and quantity for specific animals under supervision</li> </ul>	

	Grade 5 Term 3			
WEEK	TOPIC	<b>CONTENT</b> The learner must be able to	Techniques, activities, resources and process notes	
7	Environmental Education	Community and Heritage: effect of natural disasters         1. Identify natural disaster that can have an effect on agriculture         2. Discuss the effect of natural disasters on agriculture         3. Explain safety measures needed to prevent disasters         4. Know what safety measures to be taken during events of disasters         Sustain all agricultural practices needing continuous maintenance	<ul> <li>video/internet clips</li> <li>Explain safety measures needed to prevent disasters</li> <li>Discuss safety measures</li> </ul>	
			video/internet clips	

	Grade 5 Term 3			
WEEK	TOPIC	<b>CONTENT</b> The learner must be able to	Techniques, activities, resources and process notes	
8	Business Practises	Apply basic skills in storage management and stocktaking 1. Prepare storage space to receive stock through cleaning and disinfecting 2. Identify appropriate space for storage of different products and equipment 3. Understand the prevention of contamination	<ul> <li>After harvesting of produce, learners make a list of all products roughly on an empty page</li> <li>Complete worksheet: list products, with drawings/selecting picture from magazines, etc., harvested</li> </ul>	
		4. Apply basic stock inventory taking, issuing	retail	

		Grade 5 Ten	m 3	
WEEK	WEEK         TOPIC         CONTENT           The learner must be able to         The learner must be able to		Techniques, activities, resources and process notes	
		and receiving of stock 5. Identify the appropriate re-order level and reporting on stock levels for prompt re- ordering <u>Understand basic costing (income/expenditure)</u> 1. Demonstrate how to draw up a basic budget	<ul> <li>Pack produces in appropriate way and display produce correctly while teacher supervise</li> <li>Explain to learners how to draw up a basic budget reflecting expenditure and income</li> <li>Use simple spreadsheet/journal to implement the concept by following the teachers instructions</li> </ul>	
		<ul> <li>reflecting expenditure and income</li> <li><u>Understand entrepreneurship in agriculture</u></li> <li>1. List and describe opportunities, outlets and basic requirements of local markets</li> <li>2. Understand the differences in quality of products and be aware of local preferences</li> <li>3. Compare prices of various outlet to price a products</li> <li>4. Understand the importance of packaging and display of products</li> <li>5. Set up and man a stall at an outlet in the immediate community</li> </ul>	<ul> <li>Discuss and compare the quality of products</li> <li>Have products and pricelist from an outlet in the community available to discuss pricing of a product. Make learners aware of the cost of expenses in the process of cultivating product</li> <li>Discuss marketing skills needed</li> <li>Discuss the importance of packaging using samples from the industry</li> <li>Point out what materials are available through implementing recycling to reduce cost</li> <li>Set up a stall at school for teachers and parents to support by buying their produce</li> </ul>	
		Sustain all agricultural practices needing continuous maintenance	<ul><li>while teacher observe</li><li>After harvesting of produce, learners make a list of all products roughly</li></ul>	

	Grade 5 Term 3			
WEEK	VEEK         TOPIC         CONTENT           The learner must be able to         The learner must be able to		Techniques, activities, resources and process notes	
			<ul> <li>on an empty page</li> <li>Transfer the list to a more formal worksheet or to a simple spreadsheet on the computer copying a sample given</li> <li>Discuss/compare quality of products with products available in retail and price produce</li> <li>Pack produces in appropriate way and display produce correctly while teacher supervise</li> <li>Draw up a basic budget reflecting expenditure and income</li> <li>Use simple spreadsheet/journal to implement the concept by following the teachers instructions</li> <li>Make use of produce to practically discuss and compare the quality of products</li> <li>Have products and pricelist from an outlet in the community available to discuss pricing of a product. Make learners aware of the cost of expenses in the process of cultivating product</li> <li>Discuss the importance of packaging using samples from the industry</li> <li>Point out what materials are available through implementing recycling to reduce cost</li> <li>Learners practise marketing skills at school and in the community</li> <li>Learners set up a stall at school for teachers and parents to support by buying their produce</li> </ul>	

	Grade 5 Term 3			
WEEK	WEEK         TOPIC         CONTENT           The learner must be able to         The learner must be able to		Techniques, activities, resources and process notes	
			<ul> <li>Gr 5: 3<sup>d</sup> year</li> <li>Learners practically organise storage space to ensure easy access to equipment needed, call teacher when completed so that teacher can do a check</li> <li>After harvesting of produce, learners make a list of all products roughly on an empty page</li> <li>Transfer the list to a more formal worksheet or to a simple spreadsheet on the computer</li> <li>Discuss/compare quality of products with products available in retail and price produce</li> <li>Pack produces in appropriate way and display produce correctly, teacher do quality check</li> <li>Draw up a basic budget reflecting expenditure and income</li> <li>Use simple spreadsheet/journal to implement the concept by following the teachers instructions</li> <li>Make use of produce to practically discuss and compare the quality of products</li> <li>Avail products and pricelist from an outlet in the cost of expenses in the process of cultivating products</li> <li>Discuss the importance of packaging using samples from the industry</li> </ul>	

	Grade 5 Term 3			
WEEK	EEK     TOPIC     CONTENT       The learner must be able to     The learner must be able to		Techniques, activities, resources and process notes	
			Point out what materials are available through implementing recycling to reduce cost	
			Practise marketing skills at school and in the community	
			• Set up a stall at school for teachers and parents to support by buying	
			their produce	
		Revise and sustain activities taught in previous	Gr 5 : 1 <sup>st</sup> year	
9		weeks and agricultural practices needing	Irrigate crops with appropriate watering method	
		continuous maintenance	Name different forms of irrigation	
		1. Select right method of watering and correct	Weed individual plot in garden with appropriate method	
		time of day to water plants	• Use correct tools for process of planting (correct space, place and	
		2. Identify an irrigation system for a specific	depth)	
		area	Prepare a plot for permaculture planting	
		3. Weed control methods	Label different types of feed	
		4. Understand the necessity to space, place	List and name natural disasters	
		and regulate planting depth	Compare the quality of products	
		5. Explain basic principles of permaculture	Gr 5 : 2 <sup>nd</sup> year	
		6. Animal feeding procedures	Indicate correct time of day to water plants and water plants	
		7. Identify natural disasters that can have an	Explain which irrigation system would be suitable where	
		effect on agriculture	Select appropriate safety precautions when chemical weeding is	
		8. Selecting, pricing and packaging of products	selected	
			Demonstrate process of sowing seeds or planting seedlings	
			Explain the advantages of permaculture	
			Select suitable feed types and quantity for specific animals	

	Grade 5 Term 3			
WEEK	ΤΟΡΙϹ	<b>CONTENT</b> The learner must be able to	Techniques, activities, resources and process notes	
			Explain the effects of natural disaster	
			List expenses in the process of cultivating products	
			Gr 5 : 3 <sup>rd</sup> year	
			Irrigate crop correctly and at appropriate time of day	
			• Choose correct irrigation system for a specific area indicated with	
			pictures	
			Assist in chemical weeding where needed	
			Choose suitable planting method – companion or intercropping or	
			rotation	
			Plant plants/seedlings using permaculture principles	
			Report feed levels and irregularities	
			Explain safety measures during a disaster	
			List expenses in process of cultivating a product	
10	Assessment	The week allocated to formal assessment should	be integrated across the nine (9) weeks planned for teaching and learning.	
		The assessment will consist of practical tasks with	80% weighting and informal theoretical assessment with 20% weighting.	
		Sustain all agricultural practices needing continuou	is maintenance	

## Assessment

Assessment is formally recorded during four (4) practical sessions with a minimum of four (4) skills reported. Learners, regardless of abilities, shall be assessed on the same skill. The following serves as suggestion of skills to record and report on.

	Gr 5 : 1 <sup>st</sup> year	Gr 5 : 2 <sup>nd</sup> year	Gr 5 : 3 <sup>rd</sup> year
Week 2	Name different forms of	Explain irrigation system	Irrigate crop correctly at
	irrigation	suitable	appropriate time of day
Week 3	Weed plot in garden with	Explain safety precautions	Assist in chemical weeding
	appropriate method	for chemical weeding	where needed
Week 4	Use correct tools for process	Execute the process of	Choose suitable planting
	of planting	sowing seeds or planting	method
		seedlings	
Week 5	Prepare plot for permaculture	Explain advantages of	Plants seedlings using
	planting	permaculture	permaculture principles
Week 6	Label different types of feed	Select feed types/quantity	Report feed levels and
		for specific animals	irregularities
Week 7	List and name natural	Explain the effects of natural	Explain safety measures during
	disasters	disaster	a disaster
Week 8	Compare the quality of	Explain expenses in the	List expenses in process of
	products	process of cultivating	cultivating a product
		products	
		1	
		)	

Four theoretical activities are assessed and recorded, however, a minimum of 1 theoretical activity is reported on. The following serves as suggestions of theoretical activities to report on.

Week	Sort pictures in categories on	Glue names of disaster	ames of disaster Find and describe correct		res
7	worksheet	under picture	to each disaster		
Week	List products with	Transfer list to worksheet	Transfer	list	to
8	pictures/drawings, etc	from sample	worksheet/spreads	sheet	

# 3.2.8 Grade 5 Term 4

Grade 5 Term 4		
WEEK TOPIC	<b>CONTENT</b> The learner must be able to	Techniques, activities, resources and process notes
1 General Farming	<ul> <li><u>Apply basic and general safety practices</u></li> <li>1. Apply personal hygiene</li> <li>2. Understand what basic food safety practices are</li> <li>3. Identify and apply the safety measure regarding the use of basic agricultural tools and equipment</li> <li>4. Understand the basic hygienic requirements of organic food</li> <li>5. Understand the importance of protective clothing</li> <li><u>Identify limitation factors like insects, pests and diseases and the damage it can cause</u></li> <li>1. Recognise different insects and establish the harmful ones for specific crops</li> <li>2. Understand that all insects have a purpose in an ecosystem</li> <li>3. Establish eco-friendly means to diminish the</li> </ul>	<ul> <li>Importance of protective clothing</li> <li>Collect insect from garden with a net</li> <li>Investigate the insects through a magnifying glass and separate the harmful ones from the beneficial ones</li> <li>Identify which insects have which affect on crops/plants in the area</li> <li>Learners produce their own chart, using agriculture magazines (i.e. Farmers Weekly of the Landbou Weekblad) for examples of different insects</li> </ul>

Grade 5	Grade 5 Term 4			
WEEK	TOPIC	<b>CONTENT</b> The learner must be able to	Techniques, activities, resources and process notes	
		<ul> <li>harmful effects of certain insects</li> <li>4. Recognize insects that can assist in controlling harmful ones (beneficial garden creatures), i.e. ladybirds controlling aphids</li> <li>5. Understand measures taken to prevent the killing of friendly insects</li> <li>6. Explain the reason for having bees in the garden</li> <li><u>Understand the application of natural and agrochemical products in a safe, effective and responsible manner with consideration of the environment</u></li> <li>1. Identify pests to be removed with natural products or chemically</li> <li>2. Prepare equipment and natural/chemical products to control pests</li> <li>3. Minimized use of chemicals to control insects</li> <li>4. Apply products according to safety procedures</li> <li>5. Explain the application of ecological pest</li> </ul>	<ul> <li>Demonstrate the different ways of controlling pests where after pupils continue on their own</li> <li>Gr 5 : 2<sup>nd</sup> year</li> <li>Briefly remind learners re;</li> <li>Reasons for personal hygiene</li> <li>Basic food safety practices and hand wash techniques</li> <li>Safety measures regarding the use of basic agricultural tools and equipment</li> </ul>	
		control and implement an integrated control	<ul><li>ladybirds, etc</li><li>List these insects on a poster and display it prominently</li></ul>	

Grade 5	Grade 5 Term 4			
WEEK	TOPIC	<b>CONTENT</b> The learner must be able to	Techniques, activities, resources and process notes	
WEEK			<ul> <li>Explain plant diseases to learners with pictures</li> <li>Demonstrate the different ways of controlling pests and diseases while learners assist</li> <li>Gr 5: 3" year</li> <li>Briefly remind learners re;</li> <li>Reasons for personal hygiene</li> <li>Basic food safety practices and hand wash techniques</li> <li>Safety measures regarding the use of basic agricultural tools and equipment</li> <li>Hygienic requirement when dealing with organic food</li> <li>Importance of protective clothing</li> <li>Identify and name insects that have a negative effect on crops/plants in the area</li> <li>Circle harmful insects on a worksheet</li> <li>Learners explain how certain insect (ecological pest control) can be implemented in and integrated program and why certain insects should be protected</li> <li>Learners make individual poster listing eco-friendly insects on and display it prominently</li> <li>Explain plant diseases to learners with pictures and make learners</li> </ul>	
			<ul> <li>aware of the negative impact it can have on production</li> <li>Demonstrate the different ways of controlling pests and diseases while</li> </ul>	

Grade	5 Term 4		
WEEK	TOPIC	<b>CONTENT</b> The learner must be able to	Techniques, activities, resources and process notes
			learners assist
2	Plant Production	<ul> <li>Harvest agricultural crops by using basic harvesting tools</li> <li>1. Analyse vegetable or fruit appearance</li> <li>2. Establish internal requirements for good quality vegetables/fruit, i.e. flavour, colour, insect damage</li> <li>3. Understand methods of testing for the maturity and ripeness of the crop</li> <li>4. Identify changes that take place during the ripening process</li> <li>5. Understand the correct handling of crop/fruit as a factor producing a superior product, ensuring no or minimum damage</li> <li>6. Recognise inferior quality products</li> <li>7. Understanding of means to separate inferior quality products i.e. separate bins or containers to prevent them from rotting</li> <li>8. Use basic harvesting tools to harvest specific</li> </ul>	<ul> <li>Demonstrate with appropriate tools, i.e. machete to harvest cabbage or scissors to harvest chillies</li> <li>Learners actively partake in all the processes after discussions</li> <li>Gr 5 : 2<sup>nd</sup> year</li> <li>Report when crops/fruit are ready to be harvested</li> <li>Demonstration with examples of different crops</li> <li>Use of sensory cues; sight, smell and touch to be developed</li> <li>Explain importance of harvesting area being clean from waste material</li> <li>Select and demonstrate correct methods of harvesting with appropriate tools, i.e. machete to harvest cabbage or scissors to harvest chillies</li> </ul>

Grade 5	Grade 5 Term 4			
WEEK	TOPIC	<b>CONTENT</b> The learner must be able to	Techniques, activities, resources and process notes	
		crops 9. Understand the use, cleaning and storage of basic harvesting tools before and after use <u>Sustain all agricultural practices needing</u> <u>continuous maintenance</u>	<ul> <li>Gr 5: 3<sup>d</sup> year</li> <li>Establish and report when crops/fruit are ready to be harvested</li> <li>Explain importance of harvesting area being clean from waste material</li> <li>Select and demonstrate correct methods of harvesting with appropriate tools, i.e. machete to harvest cabbage or scissors to harvest chillies</li> <li>Partake in harvesting crops</li> <li>Explanation by learners where crops/fruit will be stored after harvesting where after the take part in the process of storing the produce</li> </ul>	
3	Plant Production	<ul> <li><u>Demonstrate an understanding of crop</u></li> <li><u>preservation</u></li> <li>1. Understand procedures in food or beverage manufacturing environment</li> <li>2. Understand health and safety aspects relevant to the food or beverage manufacturing environment</li> <li>3. Know how to clean, sanitise/sterilise food manufacturing equipment and surfaces manually</li> </ul>	<ul> <li>Gr 5: 1<sup>st</sup> year</li> <li>Visit a food or beverage manufacturing environment to explain procedures/health and safety aspects</li> <li>Demonstrate how to clean, sanitise/sterilise equipment</li> <li>Explain how to determine the quality of food products using sensory evaluation</li> <li>Gr 5: 2<sup>nd</sup> year</li> <li>Visit a food or beverage manufacturing environment to explain procedures/health and safety aspects</li> <li>Demonstrate how to clean, sanitise/sterilise equipment while learners assist</li> <li>Determine the quality of food products using sensory evaluation</li> </ul>	

Grade 5	5 Term 4		
WEEK	TOPIC	<b>CONTENT</b> The learner must be able to	Techniques, activities, resources and process notes
		<ul> <li>4. Sterilise bottles/containers</li> <li>5. Determine the quality of food products using sensory evaluation</li> <li><u>Sustain all agricultural practices needing continuous maintenance</u></li> </ul>	<ul> <li>comparing appropriate food to spoilt food products</li> <li>Demonstrate how to prepare a product for the market, i.e., jam, chutney, etc and bottle produce explaining the above processes practically</li> <li><i>Gr 5 : 3<sup>rd</sup> year</i></li> <li>Visit a food or beverage manufacturing environment to explain procedures/health and safety aspects</li> <li>Demonstrate how to clean, sanitise/sterilise equipment while learners assist</li> <li>Determine the quality of food products using sensory evaluation comparing appropriate food to spoilt food products</li> <li>Demonstrate how to prepare a product for the market, i.e., jam, chutney, etc and bottle produce explaining the above processes practically</li> </ul>
4	Gardening/Horticulture	<ul> <li><u>Manipulate plants using pre-determined methods</u></li> <li><u>and techniques</u></li> <li>1. Use the correct procedures of manipulating plants</li> <li>2. Prepare pruning equipment according to workplace procedures</li> <li>3. Apply the correct methods of pruning hedges,</li> </ul>	<ul> <li>Gr 5: 1<sup>st</sup> year</li> <li>Invite a horticulturist or pruner or visit a farm during pruning seasons to give a demonstration on the correct pruning methods for the different plants</li> <li>Demonstrate to learners on how to prepare pruning equipment while learners assist</li> <li>Explain to learners reasons for treating wounds on trees/shrubs while demonstrating the method</li> <li>Remove pruning material and waste whilst explaining to learners</li> </ul>

Grade 5 Term 4			
WEEK TOPIC	<b>CONTENT</b> The learner must be able to	Techniques, activities, resources and process notes	
	<ul> <li>trees and ornamental plants</li> <li>4. Treat pruned wounds according to workplace procedures</li> <li>5. Explain reason for treating of wounds of trees (fruit trees) and shrubs (roses)</li> <li>6. Understand why it is important to remove pruning material and waste from garden according to workplace</li> <li>7. Solve common problems associated with pruning within scope of work</li> <li>8. Design a frame to manipulate the shape of a shrub</li> <li>9. Clean and store pruning equipment and protective clothing according to workplace</li> <li>Sustain all agricultural practices needing continuous maintenance</li> </ul>	<ul> <li>Assist with pruning and explain on how to prepare pruning equipment</li> <li>Explain reasons for treating wounds on trees/shrubs and assist while teacher demonstrate the method</li> <li>Remove pruning material and waste whilst explaining to learners</li> </ul>	

Grade 5	5 Term 4	Grade 5 Term 4			
WEEK	TOPIC	<b>CONTENT</b> The learner must be able to	Techniques, activities, resources and process notes		
			<ul> <li>Remove pruning material and waste whilst explaining to learners</li> <li>Describe and demonstrate the different ways of manipulating plants through frames and pruning</li> <li>Design own frames on the instruction of the teacher</li> <li>Clean and store pruning equipment and protective clothing according to workplace procedures</li> </ul>		
5	Animal Production	<ul> <li>Harvesting and processing of animal products</li> <li>1. Describe the animal products used by man i.e. milk, manure, eggs</li> <li>2. Describe various procedures of harvesting different animal products</li> <li>3. Prepare equipment for milking and shearing animals</li> <li>4. Milk cows and goats, and shear farm animals</li> <li>5. Collect, grade, sort and handle eggs</li> <li>6. Store and transport animal products</li> </ul>	<ul> <li>Gr 5 : 1<sup>st</sup> year Make use of a poster for description of which animal products come from which animals</li> <li>Visit farm to observe different procedures of harvesting products, i.e. a dairy farm to observe milking of cows or shearing of sheep</li> <li>Explain preparation of equipment for milking or shearing animals</li> <li>Practically engage in harvesting eggs or milking a cow whilst visiting a dairy farm</li> <li>Demonstrate the shearing of a sheep</li> <li>After collecting eggs, explain to learners how to handle, sort/grade and package eggs</li> <li>Make use of a roster for taking turns to harvest schools own products on a regular basis whilst making sure that process complies with health standards</li> <li>-Explain the importance of the pre-slaughter health status and the economical age of slaughtering</li> </ul>		

Grade	5 Term 4		
WEEK	TOPIC	<b>CONTENT</b> The learner must be able to	Techniques, activities, resources and process notes
		<ul> <li><u>animals</u></li> <li>1. Explain the importance of the pre-slaughter health status</li> <li>2. Explain the economical age for slaughtering</li> <li>3. Observe the need for strict health and hygiene with handling products</li> <li>4. Explain the equipment used in a butchery</li> <li>5. Explain reasons for various methods of storage of slaughtered animals</li> <li>6. Explain how different parts of an animal (lamb, beef, pork, chicken, fish, etc.) is cut and processed into different products for consumption such as mince, chops, steaks, fillets, wings, thighs, biltong, etc.</li> <li><u>Sustain all agricultural practices needing continuous maintenance</u></li> </ul>	<ul> <li>animals</li> <li>Visit farm to observe different procedures of harvesting products, i.e. a</li> </ul>

Grade \$	Grade 5 Term 4			
WEEK	TOPIC	CONTENT The learner must be able to	Techniques, activities, resources and process notes	
			<ul> <li>Explain the importance of the pre-slaughter health status and the economical age of slaughtering</li> <li>Visit a farm where animals are ready to be sent to an abattoir</li> <li>Visit a butchery to observe and explain to learners the different equipment used in the butchery Learners practically clean and pack meat of an animal for freezing purposes</li> <li><i>Gr5: 3<sup>st</sup> year</i></li> <li>Make use of a poster for description of which animal products come from which animals</li> <li>Learners complete a worksheet connecting products to the correct animals</li> <li>Visit farm to observe different procedures of harvesting products, i.e. a dairy farm to observe milking of cows or shearing of sheep</li> <li>Learners assist in preparation of equipment for milking or shearing animals</li> <li>Practically engage in harvesting eggs or milking a cow whilst visiting a dairy farm</li> <li>Demonstrate the shearing of a sheep while learners assist</li> <li>After collecting eggs, explain to learners how to handle, sort/grade and package eggs</li> <li>Make use of a roster for taking turns to harvest schools own products on a regular basis whilst making sure that process complies with health</li> </ul>	

Grade 5	Grade 5 Term 4			
WEEK	TOPIC	<b>CONTENT</b> The learner must be able to	Techniques, activities, resources and process notes	
6	Environmental Practices	Resource Use: Indigenous knowledge about         water harvesting         1. Describe Nguni water collection practices; sweet water         2. Practise how to carry water home         3. Understand scarcity of water         Sustain all agricultural practices needing continuous maintenance	<ul> <li>standards</li> <li>Explain the importance of the pre-slaughter health status and the economical age of slaughtering</li> <li>Visit a farm where animals are ready to be sent to an abattoir</li> <li>Visit a butchery to observe and explain to learners the different equipment used in the butchery</li> <li>Learners practically clean and pack meat of an animal for freezing purposes</li> <li><i>Gr 5 : 1<sup>et</sup> year</i></li> <li>Discuss availability of water in area where learners live</li> <li>Describe traditional ways of harvesting water from a river using visual material(dvd or youtube)</li> <li>List different ways of preserving water</li> <li><i>Gr 5 : 2<sup>nd</sup> year</i></li> <li>Discuss availability of water in area where learners live, encourage learners to bring visual examples</li> <li>Learners explain traditional ways of harvesting water from a river using visual material(dvd or youtube)</li> <li>List different ways of carrying and storing water in the past and now</li> <li>List different ways of preserving water on a farm</li> </ul>	

Grade 5	Grade 5 Term 4			
WEEK	TOPIC	<b>CONTENT</b> The learner must be able to	Techniques, activities, resources and process notes	
			<ul> <li>Discuss availability of water in area where learners live, encourage learners to bring visual examples</li> <li>Learners explain traditional ways of harvesting water from a river using visual material(dvd or youtube)</li> <li>Discuss different ways of carrying and storing water in the past and now</li> <li>Make a pot from clay in which water can be kept</li> </ul>	
7	Business Practices	<ul> <li><u>Apply basic skills in storage management and stocktaking</u></li> <li>Prepare storage space to receive stock through cleaning and disinfecting</li> <li>Identify appropriate space for storage of different products and equipment</li> <li>Understand the prevention of contamination</li> <li>Apply basic stock inventory taking, issuing and receiving of stock</li> <li>Identify the appropriate re-order level and reporting on stock levels for prompt reordering</li> <li><u>Understand basic costing (income/expenditure)</u></li> </ul>	• Discuss/compare quality of products with products available in retail and price produce	

Grade 5	Term 4		
WEEK	TOPIC	<b>CONTENT</b> The learner must be able to	Techniques, activities, resources and process notes
		1. Demonstrate how to draw up a basic budget	call teacher when completed so that teacher can do a check
		reflecting expenditure and income	• After harvesting of produce, learners make a list of all products roughly on an empty page, transfer the list to a more formal worksheet or to a
		Sustain all agricultural practices needing	simple spreadsheet on the computer
		continuous maintenance	• Discuss/compare quality of products with products available in retail and price produce
		· · · · · · · · · · · · · · · · · · ·	• Pack produces in appropriate way and display produce correctly,
			teacher do quality check
			Draw up a basic budget reflecting expenditure and income
			• Use simple spreadsheet/journal to implement the concept by following
			the teachers instructions
			Gr 5 : 3 <sup>rd</sup> year
			• Organise storage space to ensure easy access to equipment needed,
			call teacher when completed so that teacher can do a check
			• After harvesting of produce, learners make a list of all products roughly
			on an empty page, transfer the list to a more formal worksheet or to a
			simple spreadsheet on the computer
			• Discuss/compare quality of products with products available in retail
			and price produce
			• Pack produces in appropriate way and display produce correctly,
			teacher do quality check
			Draw up a basic budget reflecting expenditure and income

Grade &	5 Term 4		
WEEK	TOPIC	<b>CONTENT</b> The learner must be able to	Techniques, activities, resources and process notes
			Use simple spreadsheet/journal to implement the concept by following the teachers instructions
8	Business Practices	<ul> <li><u>Understand entrepreneurship in agriculture</u></li> <li>1. List opportunities, outlets and basic requirements of local markets</li> <li>2. Understand the differences in quality of products and be aware of local preferences</li> <li>3. Compare prices of various outlet to price a products</li> <li>4. Understand the importance of packaging and display of products</li> <li>5. Set up and man a stall at an outlet in the immediate community</li> <li><u>Sustain all agricultural practices needing continuous maintenance</u></li> </ul>	<ul> <li>to discuss pricing of a product. Make learners aware of the cost of expenses in the process of cultivating product</li> <li>Discuss the importance of packaging using samples from the industry</li> <li>Point out what materials are available through implementing recycling to reduce cost</li> </ul>

Grade 5	5 Term 4		
WEEK	TOPIC	<b>CONTENT</b> The learner must be able to	Techniques, activities, resources and process notes
			<ul> <li>Point out what materials are available through implementing recycling to reduce cost</li> <li>Learners practise marketing skills at school and in the community</li> <li>Learners set up a stall at school for teachers, parents and community to support by buying their produce</li> <li><i>Gr 5: 3<sup>d</sup> year</i></li> <li>Make use of produce to practically discuss and compare the quality of products deciding which produce is sub-standard and which is appropriate to be marketed</li> <li>Have products and pricelist from an outlet in the community available to discuss pricing of a product. Make learners aware of the cost of expenses in the process of cultivating product</li> <li>Discuss the importance of packaging using samples from the industry</li> <li>Point out what materials are available through implementing recycling to reduce cost</li> <li>Learners practise marketing skills at school and in the community</li> <li>to reduce cost</li> </ul>
9		Revise and sustain activities taught in previousweeks and agricultural practices needingcontinuous maintenance1. Recognise different insects	<ul> <li>Gr 5 : 1<sup>st</sup> year</li> <li>Select appropriate tools for harvesting</li> <li>Clean and sanitise equipment for preservation</li> <li>Prepare pruning equipment</li> <li>Identify different equipment used in a butchery</li> </ul>

Grade 5	5 Term 4		
WEEK	ΤΟΡΙϹ	<b>CONTENT</b> The learner must be able to	Techniques, activities, resources and process notes
		<ol> <li>Correct handling of crop/fruit</li> <li>Crop preservation</li> </ol>	Describe traditional ways of harvesting water
		<ol> <li>Crop preservation</li> <li>Manipulating/pruning plants</li> </ol>	Use simple spreadsheet/journal to record basic income and expenditure
l		5. Processing of products in a butchery	Set up stall and practice marketing skills at school
		<ul><li>6. Indigenous knowledge on water harvesting</li><li>7. Understand basic costing</li></ul>	<ul> <li>Gr 5 : 2<sup>nd</sup> year</li> <li>Select and demonstrate correct methods of harvesting</li> </ul>
		8. Set up and man a stall	Prepare a preserved product for market
l			<ul> <li>Explain reasons for treating wound on trees/shrubs</li> <li>Clean and pack meat for freezing purposes</li> </ul>
			Demonstrate different ways of carrying water
			<ul> <li>Draw up a basic budget</li> <li>Set up stall and practice marketing skills in community</li> </ul>
			Gr 5 : 3 <sup>rd</sup> year
			Practical harvesting of crops
			<ul><li>Prepare a preserved product for market</li><li>Remove pruning material correctly</li></ul>
			Clean and pack meat for freezing purposes
l			<ul> <li>Explain availability of water in area</li> <li>Draw up a basic budget and use simple spreadsheet/journal to record</li> </ul>
			income and expenditure
			Set up stall and practice marketing skills in community

Grade 5	Grade 5 Term 4		
WEEK	TOPIC	<b>CONTENT</b> The learner must be able to	Techniques, activities, resources and process notes
10	Assessment	The week allocated to formal assessment should be integrated across the nine (9) weeks planned for teaching and learning. The assessment will consist of practical tasks with 80% weighting and informal theoretical assessment with 20% weighting.	
		Sustain all agricultural practices needing continuou	is maintenance

### Assessment

Assessment is formally recorded during four (4) practical sessions with a minimum of four (4) skills reported. Learners, regardless of abilities, shall be assessed on the same skill. The following serves as suggestion of skills to record and report on.

	Gr 5 : 1 <sup>st</sup> year	Gr 5 : 2 <sup>nd</sup> year	Gr 5 : 3 <sup>rd</sup> year
Week 2	Select appropriate tools for	Select correct methods of	Practical harvesting of crops
	harvesting	harvesting	
Week 3	Clean and sanitise equipment	Prepare preserved product	Prepare preserved product for
	for preservation	for market	market
Week 4	Prepare pruning equipment	Reasons for treating wound	Remove pruning material
		on trees/shrubs	correctly
Week 5	Identify different equipment	Clean/pack meat for freezing	Clean/pack meat for freezing
	used in a butchery	purposes	purposes
Week 6	Describe traditional ways of	Demonstrate different ways	Explain availability of water in
	harvesting water	of carrying water	area
Week 7	Use simple	Draw up a basic budget	Draw up a basic budget and
	spreadsheet/journal to record		record income and
			expenditure
Week 8	Set up stall, practice	Set up stall/practice	Set up stall/practice marketing
	marketing skills at school	marketing in community	in community

Four theoretical activities are assessed and recorded, however, a minimum of 1 theoretical activity is reported on. The following serves as suggestions of theoretical activities to report on.

Week 1	Produce chart with	List insects as harmful/eco-	Circle harmful insects on a
	examples of insects	friendly on worksheet	worksheet
Week 5	Match pictures of products	Label and match products and	Connect products to correct
	to animals	animals	animals

# 4 SECTION 4

#### ASSESSMENT 5

### The generic assessment section will be copied after the public comment changes have been made.

The following section is subject specific.

Asses	Assessment across the 5 years				
Grade	e 4 – Prac	ctical assessment tasks			
		Gr 4 : 1 <sup>st</sup> year	Gr 4 : 2 <sup>nd</sup> year		
Task	Term 1				
1	Week	Use basic hand tools – spade & fork	Use basic hand tools - spade, fork &		
	2 or 3		rake		
		Identify parts of plants	Identify parts of plants		
2	Week	Dress in protective clothing	Dress in protective clothing		
	4 or 5				
		Identify and assist with feeding of smaller	Feed smaller farm animals		
		farm animals			
3	Week	Identify and assist with handling of	Feed and care for poultry		
	6 or 7	poultry			
		Assist in applying appropriate bedding	Apply bedding material on own		
		material			
4	Week	Name medicinal plants	Harvest medicinal plants		
Task	Term 2				
1	Week	Observe and report fencing where	Assist in practical activities maintaining		
	2 or 3	maintenance is needed	fencing where needed		
		Separate topsoil from subsoil	Name samples of different soil types		
2	Week	Dig over bed	Prepare bed for permaculture process		
	4 or 5				
		Place composting material with correct	Dig over composting material in correct		
		composting process	way		
3	Week	Name different cultivars/crops	Connect cultivars/crops to plant or tree		
	6 or 7				
		Prepare area for mowing	Rake and collect grass after mowing		
4	Week	Name different farm animals discussed	Apply bedding materials for animals		

			correctly
Task	Term 3		
1	Week 1 or 2	Re-pack worm farm with assistance	Prepare natural fertilizer
		Water garden	Water garden choosing correct equipment
2	Week 3 or 4	Plant seedlings (companion planting)	Plant seedlings (intercropping)
		Plant ornamental seedlings with assistance	Plant ornamental seedlings
3	Week	Prepare permaculture plot with	Prepare permaculture plot
	6 or 7	assistance Assist in handle and move animals	Handle and move animals
4	Week	Tidy storeroom with assistance	Tidy storeroom
Task	Term 4		
1	Week	Label different insects using a chart	Identify which insect have which
	2 or 3		effect(harmful or eco-friendly
		Use sensory cues to indicate maturity of fruit	Active participation in processes of harvesting
2	Week	Assist to prune hedge	Prune hedge while teacher give advice
	4 or 5		
		Describe different types of feed with examples	Assist in selecting suitable feed for specific animals
3	Week	Describe which animal products come	Describe which products come from
	6 or 7	from which animals	which animals
		Identify sources of natural/manmade structures for storage of water	Explain the water cycle
4	Week	Assist in organising storage space	Assist in organising storage space

### Grade 4 term 1 – 4: Theoretical assessment tasks

Evidence of one theoretical task of formal assessment between week 2 – 9 as in the annual teaching plan must be available for quality assurance. The following table indicates two assessment tasks from which the teacher may choose one.

		Gr 4 : 1 <sup>st</sup> year	Gr 4 : 2 <sup>nd</sup> year
Task	Term 1		
1	Week 3	Worksheet naming three parts of	Worksheet naming different parts of
		plants	plants
2	Week 5	Label three small breeds of farm	Label six small breeds of farm animals
		animals on a worksheet	on a worksheet
Task	Term 2		
1	Week 2	Tick off creatures found, on	Label different kinds of soil
		worksheet	
2	Week 5	Complete worksheet grouping	Complete worksheet labelling different
		vegetables and fruit separately	crops or fruit cultivars
Task	Term 3		
1	Week 4	Worksheet: match different	Worksheet: name different watering
		watering equipment	equipment
2	Week 6	Worksheet: sequence of process of	Worksheet: sort pictures in sequence of
		permaculture planting	life cycle of soil organisms
Task	Term 4		
1	Week 1	Match and glue weeds next to	Name common types of weeds in
		drawing on worksheet	garden
2	Week 2	Identify and name circle eco-	Categorise harmful or eco-friendly
		friendly insects	insects

### Grade 5 - Practical assessment tasks

Task         Term 1         Discuss safety practices regarding cleaning materials         Discuss safety practices regarding fertilizer         Discuss safety practices regarding fertilizer         Discuss safety practices regarding fertilizer           2         Week         Rake/collect grass not cauge         List appropriate         Discuss care and st of weed eater/chainse clean ing mover           2         Week         Rake/collect grass not caught by lawn mower         List appropriate         Discuss care and st of weed eater/chainse clean equipment needed: veterinary practices           3         Week         Name         wild/leafy         Propagate         wild         Discuss dangers of eater/chainse clean equipment needed: veterinary practices           3         Week         Name         wild/leafy         Propagate         wild         Discuss dangers of eater/chainse clean equipment needed: veterinary practices           4         Week 8         Name         wild/leafy         Propagate         wild         Discuss dangers of eater/chainse clean equipment needed: veterinary practices           4         Week 8         Name         wild/leafy         Propagate         wild         Discuss dangers of eater/chainse clean equipment needed: veterinary practices           4         Week 8         Name         different outlets         available         Copy names to dif outhomowits available           4	
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2     Week     Plant     ornamental     Apply     appropriate     Apply appropriate wa	lizer
2 Week Plant ornamental Apply appropriate Apply appropriate wa	new
4 or 5 seedlings from seed watering of seedlings of seedlings	əring
trays	
Prepare area where Prepare soil and use Prepare soil and	use
plants or trees are to be procedures before, procedures before, o	uring
transplanted during and after plants and after plants	are
are planted planted	
3 Week Identify and name Discuss the importance Assist in building s	mple
6 or 7 different and reasons structure for	i.e.
structures used used for chickens	
for shelter/housing	

shelter/housing Explain the cat Describe the different soil degr	
types of soil	
degradation	
4 Week 8 Explain the importance of Practically pack	produce   Display packed produce in
appropriate	appropriate way
packaging	
Task Term 3	
1 Week Name different forms of Explain irrigation	system Irrigate crop correctly at
2 or 3 irrigation suitable	appropriate time of day
Weed plot in garden with Explain	safety Assist in chemical weeding
appropriate method precautions for c	chemical where needed
weeding	
2 Week Use correct tools for Execute the pro	ocess of Choose suitable planting
4 or 5 process of planting sowing seed	is or method
planting seedling	gs
Prepare plot for Explain advanta	ages of Plants seedlings using
permaculture planting permaculture	permaculture principles
3 Week Label different types of Select	feed Report feed levels and
6 or 7 feed types/quantity	for irregularities
specific animals	
List and name natural Explain the eff	fects of Explain safety measures
disasters natural disaster	during a disaster
4 Week 8 Compare the quality of Explain expense	es in the List expenses in process
products process of cu	ultivating of cultivating a product
products	
Task Term 4	
1 Week Select appropriate tools Select correct r	methods Practical harvesting of
2 or 3 for harvesting of harvesting	crops
Clean and sanitise Prepare pr	reserved Prepare preserved product
equipment for product for marke	et for market
preservation	
2 Week Prepare pruning Reasons for	treating Remove pruning material
4 or 5 equipment wound on trees/s	shrubs correctly
Clean/pack me	eat for
Identify different freezing purpose	es Clean/pack meat for
equipment used in a	freezing purposes
butchery	
3 Week Describe traditional ways Demonstrate	different Explain availability of

	6 or 7	of harvesting water	ways of carrying water	water in area		
		Use simple				
		spreadsheet/journal to	Draw up a basic budget	Draw up a basic budget		
		record		and record income and		
				expenditure		
4	Week 8	Set up stall, practice	Set up stall/practice	Set up stall/practice		
		marketing skills at school	marketing in community	marketing in community		

Evidence of one theoretical task of formal assessment between week 2 – 9 as in the annual teaching plan must be available for quality assurance. The following table indicates two assessment tasks from which the teacher may choose one.

Grade 5 term 1 – 4: Theoretical assessment tasks

Gr 5 : 1st yearGr 5 : 2nd yearGr 5 : 3rd yearTaskTerm 1Match veterinary equipment on worksheetMatch picture/names of veterinary equipmentCopy names of veterinary equipment to pictures2Week 7Practise to take stock by ticking next to pictureTake stock on list of names/pictures on worksheetTake stock on list of names/pictures on worksheetTake stock1Week 6Link animals to appropriate shelter/housingLink animals and their names to appropriate on a worksheetMeasure the material needed to build a shelter/housing structure spreadsheet/journal to explain a basic budget reflecting expenditure and income using a completed worksheet as referenceComplete simple spreadsheet/journal to explain a basic budget reflecting expenditure and income using a completed worksheet as referenceDraw explain a basic budget reflecting expenditure and incomeFind and describe correct pictures to each disaster1Week 7Sort pictures in categories on worksheetGlue names of disaster under pictureFind and describe correct pictures to each disaster									
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reference     Image: second seco			and income using a	and income	income				
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	1	Week 7	Sort pictures in	Glue names of disaster	Find and describe correct				
2 Week 8 List products with Transfer list to Transfer list to			categories on worksheet	under picture	pictures to each disaster				
	2	Week 8	List products with	Transfer list to	Transfer list to				

		pictures/drawings, etc			worksheet from sample			worksheet/spreadsheet		
Task	Term 4	•								
1	Week 1	Produce	chart	with				Circle harmful insects on a		
		examples of insects			harmful/eco-friendly on		worksheet			
					worksheet					
2	Week 5	Match	pictures	of	Label	and	match	Connect	products	to
		products to animals			products and animals		correct animals			

### **RESOURCES:**

Books: Setting up and running a school garden. A manual for teachers, parents and communities. Food An Agriculture Organization of the United Nation Rome, 2005 ISBN 978-92-5-105408-6

Creative Garden design. A Share-Net Resource Book. Share-Net. 2009 ISBN 978-1-919991-57-3

Worming Waste. A Share-Net Resource Book. Share-Net. 2009 ISBN 978-1-919991-01-6

HANDS-ON Soil and Compost Life. Windows on the Wild. A FIELD GUIDE. A Share-Net Resource Book. Share-Net. 2006 ISBN 0-9583197-8-2

AFRICA OUR HOME. Sasha Norris. Iceberg Marketing Pic. Siren Conservation Education and Tusk Trust. ISBN 978-0-9555682

ECOLOGY An introduction to principles. Pat Irwin.2001. Rhodes University Printing Unit. ISBN 0-86810-373-X

AFRICAN HERITAGE KNOWLEDGE IN THE CONTEXT OF SOCIAL INNOVATION. Learning contributions of the regional centres of expertise on education for sustainable development. Editors: Rob O'Donoghue, Soul Shava, Cryton Zazu, United Nations University, UNU-IAS ISBN 978-1-56581-231-4

Websites:

www.handsforchange.or