

## GRADE 10 APPLIED AGRICULTURE SCHEMES OF WORK TERM 1

W K	L S N	STRAND	SUBSTRAND	SPECIFIC LEARNING OUTCOME	LEARNING EXPERIENCES	KEY INQUIRY QUESTION	LEARNING RESOURCES	ASSESSMENT METHODS	REFL
1	1	CROP PRODUCTION	Agricultural land	<p><b>By the end of the lesson the learner should be able to:-</b></p> <ul style="list-style-type: none"> <li>-identify ways of accessing land for agricultural use</li> <li>-use digital devices to search for more information on ways of accessing land for agricultural use</li> <li>-appreciate the importance of land in agricultural production</li> </ul>	<p><b>The learner is guided to:</b></p> <ul style="list-style-type: none"> <li>-identify ways of accessing land for agricultural use</li> <li>-use digital devices to search for more information on ways of accessing land for agricultural use</li> </ul>	How can you access land?	Grade 10 curriculum design	<ul style="list-style-type: none"> <li>-oral questions</li> <li>-written questions</li> </ul>	
	2	CROP PRODUCTION	Agricultural land	<ul style="list-style-type: none"> <li>identify ways of accessing land for agricultural use</li> <li>-use digital devices to search for more information on ways of accessing land for agricultural use</li> <li>-appreciate the importance of land in agricultural production</li> </ul>	<ul style="list-style-type: none"> <li>-identify ways of accessing land for agricultural use</li> <li>-use digital devices to search for more information on ways of accessing land for agricultural use</li> </ul>	what is land leasing?	Grade 10 curriculum design	<ul style="list-style-type: none"> <li>-oral questions</li> <li>-written questions</li> </ul>	
	3	CROP PRODUCTION	Agricultural land	<ul style="list-style-type: none"> <li>-define the term utility of land</li> <li>-evaluate utility of land for agricultural production purposes</li> <li>-appreciate the importance of land in agricultural production</li> </ul>	<ul style="list-style-type: none"> <li>-define the term utility of land</li> <li>-evaluate utility of land for agricultural production purposes</li> </ul>	What is utility of land in agriculture ?	Grade 10 curriculum design	<ul style="list-style-type: none"> <li>-oral questions</li> <li>-written questions</li> </ul>	

	4	CROP PRODUCT ION	Agricultural land	-identify natural factors that determine productivity of land in agriculture -use digital devices to search for information on natural factors that determine productivity of land such as climate, altitude, soil factors, topography and biotic factors -appreciate the importance of land in agricultural production	-identify natural factors that determine productivity of land in agriculture -use digital devices to search for information on natural factors that determine productivity of land such as climate, altitude, soil factors, topography and biotic factors	Name 2 natural factors that determine productivity of land in agriculture ?	Grade 10 curriculum design	-oral questions -written questions	
	5	CROP PRODUCT ION	Agricultural land	-define the term topography -describe biotic factors that determine productivity in agriculture -appreciate the importance of land in agricultural production	-define the term topography -describe biotic factors that determine productivity in agriculture	Name 3 biotic factors which affect agricultural production ?	Grade 10 curriculum design	-oral questions -written questions	
	6	CROP PRODUCT ION	Agricultural land	-identify the uses of land -describe biotic factors that determine productivity in agriculture -appreciate the importance of land in agricultural production	-identify the uses of land -describe biotic factors that determine productivity in agriculture	Why is land put into different agricultural uses?	Grade 10 curriculum design		
2	1	CROP PRODUCT ION	Agricultural land	-state the importance of land in agricultural production -outline the importance of agriculture to the economy -appreciate the importance of land in agricultural production	-state the importance of land in agricultural production -outline the importance of agriculture to the economy	What is the importance of agriculture	Grade 10 curriculum design	-oral questions -written questions	

						to the economy?			
2	CROP PRODUCT ION	Properties of soil	-identify different types of soil -carry out experiment to test physical properties of soil -acknowledge the importance of soil properties in crop production	-identify different types of soil -carry out experiment to test physical properties of soil (porosity, texture)	What is soil porosity?	Grade 10 curriculum design	-oral questions -written questions		
3	CROP PRODUCT ION	Properties of soil	-identify different types of soil -carry out experiment to test physical properties of soil -acknowledge the importance of soil properties in crop production	-identify different types of soil -carry out experiment to test physical properties of soil (porosity, texture)	What is soil porosity?	Grade 10 curriculum design	-oral questions -written questions		
4	CROP PRODUCT ION	Properties of soil	-name the type of soil in the immediate environment -carry out experiment to test chemical properties of soil -acknowledge the importance of soil properties in crop production	-name the type of soil in the immediate environment -carry out experiment to test chemical properties of soil (soil PH)	What is soil PH?	Grade 10 curriculum design	-oral questions -written questions		
5	CROP PRODUCT ION	Properties of soil	-name the type of soil in the immediate environment -carry out experiment to test chemical properties of soil -acknowledge the importance of soil properties in crop production	-name the type of soil in the immediate environment -carry out experiment to test chemical properties of soil (soil PH)	What is soil PH?	Grade 10 curriculum design	-oral questions -written questions		
6	CROP PRODUCT ION	Properties of soil	-name the type of soil in the immediate environment	-name the type of soil in the immediate environment	What are biological	Grade 10 curriculum design	-oral questions		

				-carry out experiment to test biological properties of soil -acknowledge the importance of soil properties in crop production	-carry out experiment to test biological properties of soil (soil humus)	properties of soil?		-written questions	
3	1	CROP PRODUCT ION	Properties of soil	-name the type of soil in the immediate environment -carry out experiment to test biological properties of soil -acknowledge the importance of soil properties in crop production	-name the type of soil in the immediate environment -carry out experiment to test biological properties of soil (soil humus)	What are biological properties of soil?	Grade 10 curriculum design	-oral questions -written questions	
	2	CROP PRODUCT ION	Properties of soil	-relate the importance of soil profile to crop production -use digital devices to search for importance of properties of soil -acknowledge the importance of soil properties in crop production	-relate the importance of soil profile to crop production -use digital devices to search for importance of properties of soil	How do properties of soil influence crop production ?	Grade 10 curriculum design	-oral questions -written questions	
	3	CROP PRODUCT ION	Land preparation	-identify activities involved in fallow land preparation -watch a video clip of activities involved in land preparation -appreciate importance of land preparation in crop production	-identify activities involved in fallow land preparation -watch a video clip of activities involved in land preparation	What is a fallow land?	Grade 10 curriculum design	-oral questions -written questions	
	4	CROP PRODUCT ION	Land preparation	-name activities involved in fallow land preparation -describe primary cultivation as an activity required in fallow land preparation -appreciate importance of land preparation in crop production	-name activities involves in fallow land preparation -describe primary cultivation as an activity required in fallow land preparation	Name the tools used in primary cultivation?	Grade 10 curriculum design	-oral questions -written questions	

	5	CROP PRODUCT ION	Land preparation	-outline activities involved in secondary cultivation -describe the importance of secondary cultivation -appreciate importance of land preparation in crop production	-outline activities involved in secondary cultivation -describe the importance of secondary cultivation	what is the importance of secondary cultivation?	Grade 10 curriculum design	-oral questions -written questions	
	6	CROP PRODUCT ION	Land preparation	-outline the importance of tertiary operations -watch a video clip of activities involved in tertiary operations such as ridging,rolling, leveling -appreciate importance of land preparation in crop production	-outline the importance of tertiary operations -watch a video clip of activities involved in tertiary operations such as ridging,rolling, leveling	what is ridging?	Grade 10 curriculum design	-oral questions -written questions	
4	1	CROP PRODUCT ION	Land preparation	-identify a certain crop for planting -carry out land preparation operations for selected crop -appreciate importance of land preparation in crop production	-identify a certain crop for planting -carry out land preparation operations for selected crop	How does proper land preparation contribute to crop production ?	Grade 10 curriculum design	-oral questions -written questions	
	2	CROP PRODUCT ION	Land preparation	-identify a certain crop for planting -carry out land preparation operations for selected crop -appreciate importance of land preparation in crop production	-identify a certain crop for planting -carry out land preparation operations for selected crop	Which tools can we use when carrying out tertiary operations	Grade 10 curriculum design	-oral questions -written questions	

						such as levelling?			
	3	CROP PRODUCT ION	Land preparation	-define the term conservation tillage -apply conservation tillage in crop production -appreciate importance of land preparation in crop production	-define the term conservation tillage -apply conservation tillage in crop production	what is conservation tillage?	Grade 10 curriculum design	-oral questions -written questions	
	4	CROP PRODUCT ION	Land preparation	-differentiate between zero tillage and minimum tillage -watch video clips of zero tillage and minimum tillage -appreciate importance of land preparation in crop production	-differentiate between zero tillage and minimum tillage -watch video clips of zero tillage and minimum tillage	what is the difference between zero tillage and minimum tillage?	Grade 10 curriculum design	-oral questions -written questions	
	5	CROP PRODUCT ION	Land preparation	-outline the importance of land preparation in crop production -draw and name the tools used in land preparation -appreciate importance of land preparation in crop	-outline the importance of land preparation in crop production -draw and name the tools used in land preparation	List 5 tools used in land preparation ?	Grade 10 curriculum design	-oral questions -written questions	
	6	CROP PRODUCT ION	Field Management Practices	-identify crops used as vegetables -use digital devices to search for plants which are used as vegetables -appreciate importance of selected management practices in crop production	-identify crops used as vegetables -use digital devices to search for plants which are used as vegetables	Name 5 crops used as vegetables?	Grade 10 curriculum design	-oral questions -written questions	
5	1	CROP PRODUCT ION	Field Management Practices	-identify perennial crops -use digital devices to observe pictures of perennial crops	-identify perennial crops	What is a perennial crop?	Grade 10 curriculum design	-oral questions	

				-appreciate importance of selected management practices in crop production	-use digital devices to observe pictures of perennial crops			-written questions	
2	CROP PRODUCTION	Field Management Practices	-name the tools used for pruning of vegetables -watch a demonstration of pruning of vegetables such as tomatoes, capsicum -appreciate importance of selected management practices in crop production	-name the tools used for pruning of vegetables -watch a demonstration of pruning of vegetables such as tomatoes, capsicum	What is the importance of pruning vegetables?	Grade 10 curriculum design	-oral questions -written questions		
3	CROP PRODUCTION	Field Management Practices	-name the tools used for pruning of vegetables -carry out pruning of selected vegetable crops such as tomatoes and capsicum -appreciate importance of selected management practices in crop production	-name the tools used for pruning of vegetables -carry out pruning of selected vegetable crops such as tomatoes and capsicum	Which tools can we use to prune vegetables?	Grade 10 curriculum design	-oral questions -written questions		
4	CROP PRODUCTION	Field Management Practices	-name perennial crops -watch a video clip of pruning of perennial crops -appreciate importance of selected management practices in crop production	-name perennial crops -watch a video clip of pruning of perennial crops	Name perennial crops in the locality?	Grade 10 curriculum design	-oral questions -written questions		

	5	CROP PRODUCT ION	Field Management Practices	-name perennial crops -carry out pruning of perennial crops in the locality -appreciate importance of selected management practices in crop	-name perennial crops -carry out pruning of perennial crops in the locality	What is the importance of pruning of perennial crops?	Grade 10 curriculum design	-oral questions -written exercise	
	6	CROP PRODUCT ION	Field Management Practices	-define the term top dressing -describe appropriate fertilizers used in top dressing -appreciate importance of selected management practices in crop	-define the term top dressing -describe appropriate fertilizers used in top dressing	What is top dressing?	Grade 10 curriculum design	-oral questions -written questions	
6	1	CROP PRODUCT ION	Field Management Practices	-outline the importance of selected field management practices in crop production -use digital devices to watch video on selected field management practices -appreciate importance of selected management practices in crop	-outline the importance of selected field management practices in crop production -use digital devices to watch video on selected field management practices	What is the importance of field management practices in crop production?	Grade 10 curriculum design	-oral questions -written questions	
	2	CROP PRODUCT ION	Growing selected crop	-identify crops that are established through a nursery -watch video clips of crops grown on a nursery -appreciate management practices of a nursery bed	-identify crops that are established through a nursery -watch video clips of crops grown on a nursery	Which crops can be grown on a nursery?	Grade 10 curriculum design		
	3	CROP PRODUCT ION	Growing selected crop	-name crops which are grown in a nursery -prepare a nursery bed	-name crops which are grown in a nursery -prepare a nursery bed	How do you prepare a	Grade 10 curriculum design	-oral questions -written questions	

				-appreciate management practices of a nursery bed		nursery bed?			
	4	CROP PRODUCTION	Growing of selected crop	-outline the importance of growing crops in a nursery -describe nursery management practices -appreciate management practices of a nursery bed	-outline the importance of growing crops in a nursery -describe nursery management practices	Give 3 nursery management practices?	Grade 10 curriculum design	-oral questions -written questions	
	5	CROP PRODUCTION	Growing selected crop	-outline the importance of growing crops in a nursery -use digital devices to observe pictures of nursery management practices -appreciate management practices of a nursery bed	-outline the importance of growing crops in a nursery -use digital devices to observe pictures of nursery management practices	What is the importance of growing crops in a nursery?	Grade 10 curriculum design	-oral questions -written questions	
	6	CROP PRODUCTION	Growing selected crop	-outline the importance of growing crops in a nursery -use digital devices to observe pictures of nursery management practices -appreciate management practices of a nursery bed	-outline the importance of growing crops in a nursery -use digital devices to observe pictures of nursery management practices	How do management practices influence crop productivity?	Grade 10 curriculum design		
7	1	CROP PRODUCTION	Growing selected crop	-name crops that are grown in a nursery -grow a selected crop applying appropriate management practices -appreciate management practices of a nursery bed	-name crops that are grown in a nursery -grow a selected crop applying appropriate management practices	What is the importance of growing crops in a nursery?	Grade 10 curriculum design	-oral questions -written questions	

2	CROP PRODUCT ION	Crop Protection	-identify weeds in a crop field -use digital devices to observe pictures of weeds -appreciate economic importance of weeds in a farming household	-identify weeds in a crop field -use digital devices to observe pictures of weeds	Name weeds found in the locality?	Grade 10 curriculum design	-oral questions -written questions		
3	CROP PRODUCT ION	Crop Protection	-name the weeds found in the school environment -classify the weeds on morphology and life cycle -appreciate economic importance of weeds in a farming household	-name the weeds found in the school environment -classify the weeds on and life cycle	What is morphology?	Grade 10 curriculum design	-oral questions -written questions		
4	CROP PRODUCT ION	Crop Protection	-name the weeds found in the school environment -classify the weeds on morphology and life cycle -appreciate economic importance of weeds in a farming household	-name the weeds found in the school environment -classify the weeds on and life cycle	Which weeds are found in the school environment?	Grade 10 curriculum design	-oral questions -written questions		
5	CROP PRODUCT ION	Crop Protection	-identify methods of weed control -watch a video clip of methods of weed control -appreciate economic importance of weeds in a farming household	-identify methods of weed control -watch a video clip of methods of weed control	What is weed control?	Grade 10 curriculum design			
6	CROP PRODUCT ION	Crop Protection	-name methods of weed control -describe methods of weed control -appreciate economic importance of weeds in a farming household	-name methods of weed control -describe methods of weed control(physical,cultural,b	Name methods of weed control?	Grade 10 curriculum design	-oral questions -written questions		

					iological,chemical, methods)				
8	<b>MID ASSESSMENTS/MID TERM</b>								
9	1	CROP PRODUCTION	Crop Protection	-outline the disadvantages of using chemicals as a method of weed control -carry out weed control using appropriate methods -appreciate economic importance of weeds in a farming household	-outline the disadvantages of using chemicals as a method of weed control -carry out weed control using appropriate methods	What are the disadvantages of using chemicals as a method of weed control?	Grade 10 curriculum design	-oral questions -written questions	
	2	CROP PRODUCTION	Crop Protection	-outline the pros and cons of weeds -draw and name different weeds -appreciate economic importance of weeds in a farming household	-outline the pros and cons of weeds -draw and name different weeds	What are the advantages of weeds?	Grade 10 curriculum design		
	3	CROP PRODUCTION	Crop Protection	-outline the pros and cons of weeds -draw and name different weeds -appreciate economic importance of weeds in a farming household	-outline the pros and cons of weeds -draw and name different weeds	What are the disadvantages of weeds?	Grade 10 curriculum design	-oral questions -written questions	

	4	CROP PRODUCTION	General crop harvesting	-identify factors that determine harvesting of crop produce -use digital devices to search for factors that determine harvesting of crop produce -acknowledge the importance of harvesting process in crop production	-identify factors that determine harvesting of crop produce -use digital devices to search for factors that determine harvesting of crop produce	Which factors determine harvesting of crop produce?	Grade 10 curriculum design	-oral questions -written questions	
	5	CROP PRODUCTION	General crop harvesting	-name factors that determine harvesting of crop produce -explain factors that determine harvesting of crop produce -acknowledge the importance of harvesting process in crop production	-name factors that determine harvesting of crop produce -explain factors that determine harvesting of crop produce	How does weather affect harvesting of crop produce?	Grade 10 curriculum design	-oral questions -written questions	
	6	CROP PRODUCTION	General crop harvesting	-identify a crop for harvesting -explain pre harvest practices for tubers and cereals -acknowledge the importance of harvesting process in crop production	-identify a crop for harvesting -explain pre harvest practices for tubers and cereals	Name the pre harvest process for tubers and cereals?	Grade 10 curriculum design		
10	1	CROP PRODUCTION	General crop harvesting	- identify crops which are used as tubers -use digital devices to search for more information on pre harvest process for tubers and cereals -acknowledge the importance of harvesting process in crop production	-identify a crop for harvesting -use digital devices to search for more information on pre harvest process for tubers and cereals	Name crops which are used as tubers?	Grade 10 curriculum design	-oral questions -written questions	

	2	CROP PRODUCTION	General crop harvesting	<ul style="list-style-type: none"> <li>- identify activities involved in post harvest practices</li> <li>-use digital devices to watch video clips of post-harvest practices</li> <li>-acknowledge the importance of harvesting process in crop production</li> </ul>	<ul style="list-style-type: none"> <li>-identify activities involved in post harvest practices</li> <li>-use digital devices to watch video clips of post-harvest practices</li> </ul>	Which activities are involved in post harvest practices?	Grade 10 curriculum design	<ul style="list-style-type: none"> <li>-oral questions</li> <li>-written questions</li> </ul>	
	3	CROP PRODUCTION	General crop harvesting	<ul style="list-style-type: none"> <li>-identify activities involved in post harvest practices</li> <li>-carry out the harvesting process for selected crop produce</li> <li>-acknowledge the importance of harvesting process in crop production</li> </ul>	<ul style="list-style-type: none"> <li>-identify activities involved in post harvest practices</li> <li>-carry out the harvesting process for selected crop produce</li> </ul>	How does harvesting process affect the quantity and quality of crop produce?	Grade 10 curriculum design	<ul style="list-style-type: none"> <li>-oral questions</li> <li>-written questions</li> </ul>	
	4	CROP PRODUCTION	General crop harvesting	<ul style="list-style-type: none"> <li>-identify activities involved in post harvest practices</li> <li>-carry out the harvesting process for selected crop produce</li> <li>-acknowledge the importance of harvesting process in crop production</li> </ul>	<ul style="list-style-type: none"> <li>-identify activities involved in post harvest practices</li> <li>-carry out the harvesting process for selected crop produce</li> </ul>	How does harvesting process affect the quantity and quality of crop produce?	Grade 10 curriculum design	<ul style="list-style-type: none"> <li>-oral questions</li> <li>-written questions</li> </ul>	
	5	ANIMAL PRODUCTION	Breeds of livestock	-identify different breeds of cattle	-identify different breeds of cattle	Name different	Grade 10 curriculum design	-oral questions	

				-use digital devices to observe pictures of breeds of cattle -appreciate diversity of productivity from different livestock breeds	-use digital devices to observe pictures of breeds of cattle	breeds of cattle?		-written questions	
	6	ANIMAL PRODUCTION	Breeds of livestock	-identify different breeds of pigs -use digital devices to search for more information on different breeds of pig -appreciate diversity of productivity from different livestock breeds	-identify different breeds of pigs -use digital devices to search for more information on different breeds of pig	Name different breeds of pigs?	Grade 10 curriculum design	-oral questions -written questions	
11	1	ANIMAL PRODUCTION	Breeds of livestock	-identify different breeds of rabbits -watch video clips of different breeds of rabbits -appreciate diversity of productivity from different livestock breeds	-identify different breeds of rabbits -watch video clips of different breeds of rabbits	Name different breeds of rabbits?	Grade 10 curriculum design	-oral questions -written questions	
	2	ANIMAL PRODUCTION	Breeds of livestock	-identify different breeds of sheep -watch video clips of different breeds of sheep -appreciate diversity of productivity from different livestock breeds	-identify different breeds of sheep -watch video clips of different breeds of sheep	Name different breeds of sheep?	Grade 10 curriculum design	-oral questions -written questions	
	3	ANIMAL PRODUCTION	Breeds of livestock	-name the breeds of cattle -outline the characteristics of different breeds of cattle	-name the breeds of cattle -outline the characteristics of different breeds of cattle	What are characteristics of a fresian?	Grade 10 curriculum design	-oral questions -written questions	

				-appreciate diversity of productivity from different livestock breeds					
4	ANIMAL PRODUCTION	Breeds of livestock	-identify the breeds of pigs -outline the characteristics of different breeds of pigs -appreciate diversity of productivity from different livestock breeds	-identify the breeds of pigs -outline the characteristics of different breeds of pigs	What are the characteristics of different breeds of pigs?	Grade 10 curriculum design	-oral questions -written questions		
5	ANIMAL PRODUCTION	Breeds of livestock	-identify the breeds of rabbits -outline the characteristics of different breeds of rabbits -appreciate diversity of productivity from different livestock breeds	-identify the breeds of rabbits -outline the characteristics of different breeds of rabbits	what are characteristics of different breeds of rabbits?	Grade 10 curriculum design	-oral questions -written questions		
6	ANIMAL PRODUCTION	Breeds of livestock	-identify the breeds of sheep -outline the characteristics of different breeds of sheep -appreciate diversity of productivity from different livestock breeds	-identify the breeds of sheep -outline the characteristics of different breeds of sheep	what are characteristics of different breeds of sheep?	Grade 10 curriculum design			
12-13	<b>REVISION/END OF TERM 1 ASSESSMENTS</b>								