MINISTRY OF GENERAL EDUCATION PROVINCIAL SCHEMES OF WORK FOR SCIENCE 5124

Subject: AGRIC SCIENCE Grade: 8 Term: ONE Year: 20.... Teacher: ------periods per week: 12

WEEK	TOPIC	SUBTOPIC	EXPECTED OUTCOME	METHOD	SUGGESTED EXPERIMENT	REFERENCE
1	Agricultu re in Zambia	Agriculture practice and industry	Explain the importance of Agriculture in Zambia state the importance of sufficient food production in Zambia Identify on a map of Zambia areas that may not be very suitable for growing maize	Demonstr ation Discussio n Field trip Question and answers Expositor y Explanati on Project		Agric by G H Owen w.A Sakira j.parsons A.N king M.K publishers
2		Factors that influence Agricultural Developme nt	Identify factors that influence the development of Agriculture. Explain how the factors affect agriculture development Explain the need for farmers to diversify the production of crops and livestock	Demonstr ation Discussio n Field trip Question and answers Expositor Y Explainati on Project		Agric by G H Owen w.A Sakira j.parsons A.N king M.K publishers
3		Farmer Support	Investigate agencies and organisations that assist farmers in input procurement, marketing and agriculture extension	Demonstr ation Discussio n Field trip Question and answers	Field trip visiting agricultural extension officer	Agric by G H Owen w.A Sakira j.parsons A.N king M.K publishers

		Types of farmers	Explain the differences between small scale and Commercial farmers. Identifying the main Commercial farming areas in zambia.	Expositor y Explainati on Project		
4	Soil Science	Soil formation Compositio n of soil Soil profile	Explain the meaning of the term soil. Describe factors that are involved in soil formation Demonstrate the composition of soil. Explain the importance of soil components. Identify different layers of a soil profile. Explain differences in soil profiles. Explain the importance of top and sub-soils	Demonstr ation Discussio n Field trip Question and answers Expositor Y Explainati on Project	Experiment of soil components and soil profile	Agric by G H Owen w.A Sakira j.parsons A.N king M.K publishers
5		Soil profile	Relate choice of crop to be grown on depth of layers of soil. 8.2.3.5 Relate the importance of the layers of soil to	Demonstr ation Discussio n Field trip Question and answers Expositor		Agric by G H Owen w.A Sakira j.parsons A.N king M.K publishers

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		Soil texture.	agricultural value of soil. Explain the meaning of soil texture1 Identify different types of soil.	y Explainati on Project	Experiment on soil texture.	
		Types of soil. Organic(ma nures) and chemical (artificial) fertilisers	Demonstrate the variation of water retention in different types of soil. Explain the difference between manure and chemical fertilisers. Distinguish between straight and compound fertilisers.			
6		Organic(ma nures) and chemical (artificial) fertilisers	Identify fertilisers according to periods of their application. Interpret the composition of fertilisers using the information on their containers. Determine quantities of fertiliser required by a crop given various ratios for various crops. Explain the advantages and disadvantages of manure and chemical fertilisers	Demonstr ation Discussio n Field trip Question and answers Expositor Y Explainati on Project	Observing and identifying samples of fertilisers	Agric by G H Owen w.A Sakira j.parsons A.N king M.K publishers
7	Crop	Classes	Identify vegetables	Demonstr	Project on	Agric by G H

	productio n	and varieties of vegetables Site for Vegetable growing	according to groups. Name the varieties of each vegetable. List factors that make a site suitable for vegetable growing. Explain the importance of factors that make a site suitable for vegetable growing.	ation Discussio n Field trip Question and answers Expositor Y Explainati on Project	vegetable production Land preparation	Owen w.A Sakira j.parsons A.N king M.K publishers
8		Vegetable garden Seedbed preparation	Draw a simple plan for vegetable growing. Explain the importance of vegetable rotation. State the importance of a legume in vegetable rotation Demonstrate how to Prepare plots and seedbed for vegetable growing. Calculate and apply recommended quantities of manure	Demonstr ation Discussio n Field trip Question and answers Expositor Y Explainati on Project	Land preparation	Agric by G H Owen w.A Sakira j.parsons A.N king M.K publishers
9		Planting Vegetables Weed Control	Demonstrate how to Sow seeds correctly. Demonstrate how to transplant seedlings correctly. Explain the importance of weed control in vegetables.	Demonstr ation Discussio n Field trip Question and answers Expositor Y Explainati on	Sowing seeds Trans - planting	Agric by G H Owen w.A Sakira j.parsons A.N king M.K publishers

10	Pest Control	Describe the various methods of weed control in vegetables. Demonstrate effective weed control methods for a studied vegetable. Observe the safety rules when applying chemicals in a garden. Explain the effects of herbicides on the environment Describe a pest. Identify pests in relation to crops theyattack. Explain ways in which pests cause harm to crops. Demonstrate correct methods of controlling named pests in crops grown. Describe natural pest control methods. Demonstrate how to	Project Demonstr ation Discussio n Field trip Question and answers Expositor y Explainati on Project	Agric by G H Owen w.A Sakira j.parsons A.N king M.K publishers
		methods of controlling named pests in crops grown. Describe natural pest control methods.	Expositor Y Explainati on	

		Disease Control	Identify the symptoms of diseases on crops Identify the crops attacked by diseases. Explain methods of preventing disease attack on the crops.		
11		Harvesting and marketing	Identify the signs of readiness for harvesting the crop Demonstrate how to harvest and prepare vegetables for marketing. Describe how to price each Vegetable grown. Calculate the profit or Loss Describe how to Store vegetables correctly	Demonstr ation Discussio n Field trip Question and answers Expositor Y Explainati on Project	Agric by G H Owen w.A Sakira j.parsons A.N king M.K publishers
12	Forestry	Importance of trees in soil managemen t	Explain the role of trees in soil erosion and infiltration of water. State the role of trees in soil fertility	Demonstr ation Discussio n Field trip Question and	Agric by G H Owen w.A Sakira j.parsons A.N king M.K publishers

			improvement. Identify trees used to make handles and poles. Explain how you can ensure continued supply of poles and handles from the trees.	answers Expositor Y Explainati on Project		
13	End of term test	End of term test	End of term test			

MINISTRY OF GENERAL EDUCATION PROVINCIAL SCHEMES OF WORK FOR SCIENCE 5124

Subject: AGRIC SCIENCE Grade: 8 Term: TWO Year: 20.... Teacher: ------

periods per week: 12

WEEK	TOPIC	SUBTOPIC	EXPECTED OTCOME	METHOD	SUGGESTED EXPERIMENT	REFERENCE
1	Conservati on farming	Mixed cropping Mixed cropping	Describe conservation Farming Describe mixed cropping. Explain the role of mixed cropping on soil fertility Describe intercropping.	Demonstration Discussion Field trip Question and answers Expository Explaination Project	Project on mixed cropping and conservation	Agric by G H Owen w.A Sakira j.parsons A.N king M.K publishers
2		Land clearing and preparation	Describe mixed farming. State the role of mixed farming in soil fertility Describe the use of a suitable hoe in clearing the land for conservation farming. Demonstrate how to make ridges in conservation farming using a hoe	Demonstration Discussion Field trip Question and answers Expository Explanation Project	Making ridges in conservation farming	Agric by G H Owen w.A Sakira j.parsons A.N king M.K publishers
3		Chemical fertiliser and	Apply chemical fertiliser	Demonstration Discussion Field trip Question and	Research project on weed control	Agric by G H Owen w.A Sakira j.parsons

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		manure	and manure	answers		A.N king
		application	correctly	Expository		M.K
			under	Explaination		publishers
		Planting and	conservation	Project		
		weed	farming			
		control	Plant correctly			
			using a			
			suitable tool.			
			Control weeds			
			appropriately			
			in a crop			
			grown under			
			conservation			
			farming			
4		Soil Erosion	State how to	Demonstration	Demonstration	Agric by G
		Control	control soil	Discussion	on how soil	H Owen
			erosion using	Field trip	erosion	w.A Sakira
			vetiver	Question and	occurs.	j.parsons
			hedges	answers		A.N king
			Plant vetiver	Expository		M.K
			hedges	Explaination		publishers
			correctly	Project		
			concerty	-		
5	Livestock	Importance	Describe the	Demonstration	Identifying the	Agric by G
5	production.	of	importance	Discussion	digestive	H Owen
	production.	livestock	of livestock in	Field trip	system of a	w.A Sakira
		IIVESTOCK	Zambia.	Question and	ruminant and	j.parsons
		Parts of	Identify parts	answers	non-ruminant	A.N king
			• -	Expository	animals	M.K
		Digoctivo				
		Digestive	of the		ammais	
		Digestive systems	digestive	Explaination	ammais	publishers
		-	digestive system of a		anniais	
		-	digestive system of a bird	Explaination	anniais	
		-	digestive system of a bird and a pig.	Explaination	anniais	
		-	digestive system of a bird and a pig. Describe the	Explaination		
		-	digestive system of a bird and a pig.	Explaination		
		-	digestive system of a bird and a pig. Describe the	Explaination		
		-	digestive system of a bird and a pig. Describe the functions of the	Explaination		
		-	digestive system of a bird and a pig. Describe the functions of the parts of the	Explaination		
		-	digestive system of a bird and a pig. Describe the functions of the parts of the digestive	Explaination		
		-	digestive system of a bird and a pig. Describe the functions of the parts of the digestive systems of the	Explaination		
		-	digestive system of a bird and a pig. Describe the functions of the parts of the digestive systems of the animals	Explaination		
		-	digestive system of a bird and a pig. Describe the functions of the parts of the digestive systems of the animals studied	Explaination		
		-	digestive system of a bird and a pig. Describe the functions of the parts of the digestive systems of the animals studied Compare the	Explaination		
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		-	digestive system of a bird and a pig. Describe the functions of the parts of the digestive systems of the animals studied Compare the digestive system of a	Explaination		
		-	digestive system of a bird and a pig. Describe the functions of the parts of the digestive systems of the animals studied Compare the digestive	Explaination		

6	Parts of the reproductive systems	Identify and label the parts of the reproductive system of a female bird. Explain the importance of the reproductive system of a female bird Explain the functions of the parts of the female reproductive parts of a female bird	Demonstration Discussion Field trip Question and answers Expository Explaination Project		Agric by G H Owen w.A Sakira j.parsons A.N king M.K publishers
7	Breeds	List the various breeds of poultry studied Name some of hybrid poultry hatcheries in Zambia	Demonstration Discussion Field trip Question and answers Expository Explaination Project	Field trips to poultry farms	Agric by G H Owen w.A Sakira j.parsons A.N king M.K publishers
8	Brooder house	List the characteristics of a good poultry house State the floor space to house Poultry of different ages	Demonstration Discussion Field trip Question and answers Expository Explaination Project		Agric by G H Owen w.A Sakira j.parsons A.N king M.K publishers
9		List the equipment that must be in a poultry house. Plan a simple poultry house	Demonstration Discussion Field trip Question and answers Expository Explaination	Identifying poultry equipments	Agric by G H Owen w.A Sakira j.parsons A.N king M.K publishers

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10		Incubation of eggs and Brooding	Brood day old chicks. State the principles of Incubation. Recall the right temperature for chicks in a brooder house.	Demonstration Discussion Field trip Question and answers Expository Explaination Project	Project (observing incubation period)	Agric by G H Owen w.A Sakira j.parsons A.N king M.K publishers
11		Pests and diseases	Identify pests of poultry Studied Explain ways pests cause harm to poultry	Demonstration Discussion Field trip Question and answers Expository Explaination Project	Project on pest and disease identification	Agric by G H Owen w.A Sakira j.parsons A.N king M.K publishers
12			Prescribe correct methods of controlling pests in poultry studied. Identify diseases of poultry studied Prescribe correct methods of controlling diseases in poultry studied	Demonstration Discussion Field trip Question and answers Expository Explaination Project		Agric by G H Owen w.A Sakira j.parsons A.N king M.K publishers
13	End of term test	End of term test	End of term test	End of term test	End of term test	

MINISTRY OF GENERAL EDUCATION PROVINCIAL SCHEMES OF WORK FOR SCIENCE 5124

Subject: AGRIC SCIENCE Grade: 8 Term: THREE Year: 20.... Teacher: ------

periods per week: 12

WEEK	TOPIC	SUBTOPIC	EXPECTED	METHOD	SUGGESTED	REFERENCE
			OUTCOME		EXPERIMENT	
1	livestock	Records and Marketing	Maintain proper poultry records. Collect, store and market eggs correctly Prepare birds for marketing	Demonstration Discussion Field trip Question and answers Expository Explanation Project	Project on poultry records	Agric by G H Owen W.A Sakira J. parsons A.N king M.K publishers
2	Farm structures	Storage of vegetables	Describe an appropriate storage facility for vegetables. Demonstrate how to prepare vegetables for storage	Demonstration Discussion Field trip Question and answers Expository Explanation Project	Demonstrations on how to prepare vegetables for storage	Agric by G H Owen W.A Sakira J. parsons A.N king M.K publishers
3		Poultry houses	Describe appropriate houses for day old chicks, grower, finisher, point of lay and layer. 8.7.3.2 Plan an appropriate house for a given group of birds	Demonstration Discussion Field trip Question and answers Expository Explanation Project	Field trip to see poultry houses	Agric by G H Owen W.A Sakira J. parsons A.N king M.K publishers
4		3Poultry houses	3 Construct a model of an appropriate house for a given group of poultry.	Demonstration Discussion Field trip Question and answers Expository		Agric by G H Owen W.A Sakira J. parsons A.N king M.K

				Explanation Project		publishers
5	Farm Machinery	Hand tools	Identify some hand tools used at the farm Demonstrate the proper use of hand tools. Demonstrate the proper care for hand tools	Demonstration Discussion Field trip Question and answers Expository Explanation Project	Identification of hand tools	Agric by G H Owen W.A Sakira J. parsons A.N king M.K publishers
6		Sprayer Animal drawn implements	Identify major parts of a hand sprayer Identify animal drawn implements Identify major parts of animal drawn implements	Demonstration Discussion Field trip Question and answers Expository Explaination Project	Identifying parts of the sprayer	Agric by G H Owen W.A Sakira J. parsons A.N king M.K publishers
7		Storage for farm machinery	Explain the functions of major parts of animal ± drawn implements Prepare hand tools for Storage Choose an appropriate facility for storing hand tools. Describe an appropriate facility for storing animal drawn	Demonstration Discussion Field trip Question and answers Expository Explaination Project		Agric by G H Owen W.A Sakira J. parsons A.N king M.K publishers

8			implements. Prepare animal drawn implements for storage Demonstrate the proper care for animal drawn implements	Demonstration Discussion Field trip Question and answers Expository Explaination Project	Agric by G H Owen W.A Sakira J. parsons A.N king M.K publishers
9	Farm Management	Farm Management Agricultural economics	Describe farm management Describe agricultural Economics	Demonstration Discussion Field trip Question and answers Expository Explaination Project	Agric by G H Owen W.A Sakira J. parsons A.N king M.K publishers
10		Opportunity cost and production decision Types of credit	Describe the term opportunistic cost. Explain the term production decision in Agriculture Describe the types of credit available in Agriculture.	Demonstration Discussion Field trip Question and answers Expository Explaination Project	Agric by G H Owen W.A Sakira J. parsons A.N king M.K publishers
11		Interest	Explain the term interest Explain the difference between simple and compound interests Explain the importance of	Demonstration Discussion Field trip Question and answers Expository Explaination Project	Agric by G H Owen W.A Sakira J. parsons A.N king M.K publishers

12	End of term	Records Records Enterprise Grading and Standardisation End of term test	various financial documents. Prepare production records Prepare financial records Describe the term enterprise. Explain gross output and gross margins of an enterprise Explain the term grading. Explain the term grading. Explain the term standardisation Grade produce from an enterprise.	Demonstration Discussion Field trip Question and answers Expository Explanation Project	Project on how to keep farm financial records	Agric by G H Owen W.A Sakira J. parsons A.N king M.K publishers
12	test			test		