

AGRICULTURE SCHEMES OF WORK
FORM ONE 2013
TERM I

REFERENCES:

1. Longhorn Secondary Agriculture Book
2. Top mark Agriculture
3. Certificate Agriculture Book
4. Gateway Agriculture revision
5. KLB Secondary Agriculture
6. Teacher's Guide

WK	LSN	TOPIC	SUB-TOPIC SUB-TOPICS	OBJECTIVES	L/ACTIVITIES	L/T AIDS	REFERENCE	REMARKS
4	1	Introduction to Agriculture	Definition and branches of Agriculture	By the end of the lesson, the learner should be able to Define Agriculture State main branches of Agriculture	Definition of Agriculture Giving examples Use of questions and answers Note taking	Charts Tree diagrams Students book Chalk board handouts	KLB secondary Agriculture form 1 pg 1-3 Certificate Agriculture F1 pg 1-3 Longhorn secondary Agriculture form 1 pg 1-5 Teachers guide pg 37 Golden tips KCSE Agriculture pg 4-5 Top mark Agric Pg 2-2	
	2-3	Introduction to Agriculture	Crop farming Livestock farming Agricultural economics and engineering	By the end of the lesson, the learner should be able to State various types of crop and animal farming Describe various types of crop and animal farming Explain agricultural economics and engineering	Giving descriptions of crops and animals Explanations Note taking	Photographs Charts Students book Chalk board	KLB secondary Agriculture form 1 pg 3-5 Certificate F1 Agriculture pg 3 Longhorn secondary Agriculture form 1 pg 2-6 Teachers guide pg 37 Golden tips KCSE Agriculture pg 5-6 Top mark Revision pg 2-4	
5	1	Introduction to Agriculture	Systems of farming Extensive Intensive Small scale Large scale	By the end of the lesson, the learner should be able to State and describe farming systems State and explain the advantages and disadvantages of each system	Asking questions Answering questions Describing farming systems Stating advantages and disadvantages of each Note taking	Student's book Charts Diagrams	KLB secondary Agriculture form 1 pg 5 Certificate F1 pg 5-7 Longhorn secondary Agriculture form 1 pg 6-9 Teachers guide pg 38 Golden tips KCSE Agriculture pg 6-7 Top mark Revision pg 3	
	2-3	Introduction to Agriculture	Methods of farming Mixed	By the end of the lesson ,the learner should be able to	explanations of the methods identification of methods	photographs livestock product	KLB secondary Agriculture form 1 pg 6-8 Certificate F1 pg 7-10	

			Nomadic Shifting Organic agro forestry	identify various methods of farming explain the various methods	note taking	charts chalkboard	Longhorn secondary Agriculture form 1 pg 9-12 Teachers guide pg 39 Golden tips KCSE Agriculture pg 7-8 Top mark Revision pg 4-5	
6	1	Introduction to Agriculture	Role of Agriculture in the economy	By the end of the lesson, the learner should be able to State and explain the roles of agriculture in economy	Explaining the roles of Agriculture in the economy Appreciating the importance of Agriculture Note taking	Raw Materials Flow charts Specimen on produce Industrial goods	KLB secondary Agriculture form 1 pg 8-9 Certificate F1 pg 3-4 Longhorn secondary Agriculture form 1 pg 9-12 Teachers guide pg 39 Golden tips KCSE Agriculture pg 7-8 Top mark Revision pg 5	
	2-3	Factors influencing agriculture	Human factors	By the end of the lesson, the learner should be able to State and explain human factors influencing agriculture	Explaining the human factors influencing agriculture	Charts with HIV data Photographs on means of transport	KLB secondary Agriculture form 1 pg 11-15 Certificate F1 pg 11-12 Longhorn secondary Agriculture form 1 pg 16-21 Teachers guide pg 43-44 Golden tips KCSE Agriculture pg 7-8 Top mark Revision pg 7	
7	1	Climatic factors	Factors influencing Agriculture	By the end of the lesson, the learner should be able to Identify and explain the biotic factors influencing agriculture	Explaining the biotic factors Identify the factors	Weather Station equipment Maps in students books Maps showing rainfall distribution	KLB secondary Agriculture form 1 pg 16-17 Certificate F1 pg 20 Longhorn secondary Agriculture form 1 pg 21-24 Teachers guide pg 43-45 Golden tips KCSE Agriculture pg 7-8 Top mark Revision pg 7	
	2-3	Factors influencing Agriculture	Climatic factors	By the end of the lesson, the learner should be able to State climatic factors Describe how climatic factors influence Agriculture	Stating climatic factors Describing how climatic factors influence agriculture	Weather Station equipment Maps in students books Maps showing rainfall distribution	KLB secondary Agriculture form 1 pg 18-21 Certificate F1 pg 13-129 Longhorn secondary Agriculture form 1 pg 24-32 Teachers guide pg 46	
							KLB secondary Agriculture	

8	1	Factors influencing Agriculture	Edaphic Factors	By the end of the lesson, the learner should be able to Define soil Describe soil formation processes	Defining soil Describing soil formation processes	Soil samples Diagrams in students book	form 1 pg 22-29 Certificate F1 pg 21-26 Longhorn secondary Agriculture form 1 pg 33-38 Teachers guide pg 47 Golden tips KCSE Agriculture pg 7-8 Top mark Revision pg 9-10	
	2-3	Factors influencing Agriculture	Soil profile	By the end of the lesson, the learner should be able to describe the soil profile Explain its influence on crop production	Describing soil profile Explaining its influence on crop production	Diagrams in students books Excavated areas charts showing soil profile	KLB secondary Agriculture form 1 pg 22-29 Certificate F1 pg 21-26 Longhorn secondary Agriculture form 1 pg 33-38 Teachers guide pg 47 Top mark Revision pg 9-10	
9	1	Factors influencing Agriculture	Soil constituents Mineral & organic matter	By the end of the lesson, the learner should be able to Determine soil constituents State the importance of each constituents	Determining soil constituents Stating the importance of soil constituents	Sieves Soil samples Lens Diagrams and apparatus in students book	KLB secondary Agriculture form 1 pg 32-33 Certificate F1 pg 29-34 Longhorn secondary Agriculture form 1 pg 40-49 Teachers guide pg 49 Gateway secondary Revision paper 1 pg 15-17 Top mark Revision pg 12-13	
	2-3	Factors influencing Agriculture	Soil constituents Organic matter Air Water Living organisms	By the end of the lesson, the learner should be able to Determine soil constituents State the importance of each constituents	Determining soil constituents Stating the importance of soil constituents	Sieves Soil samples Lens Diagrams and apparatus in students book	KLB secondary Agriculture form 1 pg 32-33 Certificate F1 pg 29-34 Longhorn secondary Agriculture form 1 pg 40-49 Teachers guide pg 49 Gateway secondary Revision paper 1 pg 15-17 Top mark Revision pg 12-13	
10	1	Factors influencing Agriculture	Physical properties of soil	By the end of the lesson, the learner should be able to Classify soil according to structure	Classify soil according to structure	Soil samples Diagrams in the students book School farm	KLB secondary Agriculture form 1 pg 43-45 Certificate F1 pg 40-42 Longhorn secondary Agriculture form 1 pg 49-53 Teachers guide pg 47 Gateway secondary Revision paper 1 pg 17-19 Top mark Revision pg 12	

	2-3	Factors influencing Agriculture	Physical properties of soil	By the end of the lesson, the learner should be able to Classify soil according to texture and colour	Classifying soil according to texture and colour	Soil samples Diagrams in the students book School farm	KLB secondary Agriculture form 1 pg 46-54 Certificate F1 pg 35-39 Longhorn secondary Agriculture form 1 pg 53-59 Teachers guide pg 47 Gateway secondary Revision paper 1 pg 17-19 Top mark Revision pg 13-14		
11	1	Factors influencing Agriculture	Influencing of physical and chemical properties of soil on crop production	By the end of the lesson, the learner should be able to Explain the chemical properties of soil	Explain the chemical properties of soil	PH Meter PH Papers Diagrams	KLB secondary Agriculture form 1 pg 55-56 Certificate F1 pg 43-45 Longhorn secondary Agriculture form 1 pg 59-60 Teachers guide pg 47 Gateway secondary Revision paper 1 pg 19-20 Top mark Revision pg 13-14		
	2-3	Factors influencing Agriculture	Influence of physical and chemical properties of soil on crop production	By the end of the lesson, the learner should be able to Explain the effects of PH on mineral availability Relate crop and animal distribution to chemical and physical properties of soil	Explain the effects of soil PH relating crop and animal distribution on soil properties	Charts on PH Distribution maps for crops and livestock in Kenya School	KLB secondary Agriculture form 1 pg 56-57 Certificate F1 pg 45-47 Longhorn secondary Agriculture form 1 pg 53-60 Teachers guide pg 47 Gateway secondary Revision paper 1 pg 17-20 Top mark Revision pg 13-14		
12 13		TOPICAL REVISION							
14		END OF TERM ONE EXAMINATIONS							
15		MARKING AND CLOSING							

AGRICULTURE SCHEMES OF WORK
FORM ONE 2012
TERM II

REFERENCES:

1. Longhorn Secondary Agriculture Book
2. Top mark Agriculture
3. Certificate Agriculture Book
4. Gateway Agriculture revision
5. KLB Secondary Agriculture
6. Teacher's Guide

W K	LS N	TOPIC	SUB-TOPIC	OBJECTIVES	L/ACTIVITIES	L/T AIDS	REFERENCE	REMARKS
1	1-2	Farm tools and Equipment	Garden tools and equipment	By the end of the lesson, the learner should be able to Identify various garden tools and equipments Draw various garden tools and equipments Name the garden tools and equipments various parts	Identifying tools and demonstrating their use Draw the garden tools and equipments Name various parts	Garden tools and equipments Diagrams in students books photographs	KLB secondary Agriculture form 1 pg 59-62 Certificate F1 pg 49-54 Longhorn secondary Agriculture form 1 pg 63-67 Teachers guide pg 52-54 Gateway secondary Revision paper 2 pg 90-99	

	3	Farm tools and Equipment	Garden tools and equipment	By the end of the lesson, the learner should be able to State the use of various tools Carry out maintenance practices on tools and equipments	State the use of tools Practicing Maintenance of tools and equipments	Photographs of tools Diagrams in students book School farm	KLB secondary Agriculture form 1 pg 59-62 Certificate F1 pg 49-56 Longhorn secondary Agriculture form 1 pg 63-67 Teachers guide pg 52-54 Gateway secondary Revision paper 2 pg 90-99	
2	1-3	Farm tools and Equipments	Workshop tools and equipment	By the end of the lesson, the learner should be able to Identify workshop tools and equipment Name various parts State the use of various tools Carry out maintain ace practices on workshop tools and equipment	Identifying tool Demonstrating their use Drawing the tools Labeling the parts Practicing maintenance of tools and equipment	Workshop tools Diagrams in students text books School store School farm	KLB secondary Agriculture form 1 pg 75-93 Certificate F1 pg 59-71 Longhorn secondary Agriculture form 1 pg 84-101 Teachers guide pg 52-54 Gateway secondary Revision paper 2 pg 107-117	
3	1-3	Farm tools and Equipment	Livestock production tools	By the end of the lesson the learner should be able to Identify livestock production tools Draw various livestock production tools Name various parts of the tools State the use of the various tools Carry out maintenance practices on livestock production tools	Drawing tools Labeling Demonstrating their use Identifying the tools Practicing maintenance practices	Livestock Diagrams on students book Livestock store School farm	KLB secondary Agriculture form 1 pg 63-74 Certificate F1 pg 54-59 Longhorn secondary Agriculture form 1 pg 74-84 Teachers guide pg 52-54 Gateway secondary Revision paper 2 pg 100-106	
4	1-3	Farm tools and Equipment	Plumbing and masonry tools and equipment	By the end of the lesson, the learner should be able to Identify plumbing and masonry tools and equipment Name parts of various plumbing and masonry tools and equipment Draw the various plumbing and masonry tools and equipment State the use of various	Naming parts of tools Drawing various tools Stating the use of the tools Carrying out maintenance practices	School workshop Drawing in the students book Plumbing and masonry tools	KLB secondary Agriculture form 1 pg 99-102 Certificate F1 pg 72-75 Longhorn secondary Agriculture form 1 pg 97-101 Teachers guide pg 52-54 Gateway secondary Revision paper 2 pg 116-117	

				plumbing and masonry tools and equipment Carry out maintenance practices on plumbing and masonry tools and equipment				
5	1	Land Preparation (Crop production 1)	Definition and importance of land preparation Land clearing	By the end of the lesson, the learner should be able to Define land preparation Explain importance of land preparation Describing land clearing	Defining and preparation Explaining the importance of land preparation Describing land clearing	School farms Panga Slashers digging	KLB secondary Agriculture form 1 pg 104-105 Certificate F1 pg 77-78 Longhorn secondary Agriculture form 1 pg 103-105 Teachers guide pg 56-57 Top mark Agric pg 28	
	2-3	Land Preparation	Primary cultivation Secondary Cultivation	By the end of the lesson, the learner should be able to Define primary and secondary cultivation Explain how each is carried out and importance Discuss the choice of correct tool and equipment for each operation	Defining terms Explain how each is carried out Discussion the correct choice of tools and equipment	School farms Jembes Diagrams in students books pangas	KLB secondary Agriculture form 1 pg 106-110 Certificate F1 pg 79-84 Longhorn secondary Agriculture form 1 pg 105-109 Teachers guide pg 58-59 Gateway secondary Revision paper 2 pg 116-117 Top-mark secondary Agric Revision pg 28-29	

6	1	Land Preparation	Tertiary Operation	By the end of the lesson, the learner should be able to Identify tools used in tertiary operations Explain how each of the operation is done State the importance of the operation	Discussion Identifying the tools Explaining how operation is done	Drawing in the students book Photographs of tools used	KLB secondary Agriculture form 1 pg 110-113 Certificate F1 pg 85-87 Longhorn secondary Agriculture form 1 pg 109-111 Teachers guide pg 59 Gateway secondary Revision	
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							paper 2 pg 116-117 Top-mark secondary Agric Revision pg 29	
	2-3	Land Preparation	Minimum tillage Meaning Importance practices	By the end of the lesson, the learner should be able to Define minimum tillage Explain how it is done State the importance List the practices involved in minimum tillage	Defining minimum tillage Explaining how it is done Stating the importance Listing practices involved	School farm	KLB secondary Agriculture form 1 pg 112-113 Certificate F1 pg 85-86 Longhorn secondary Agriculture form 1 pg 112 Teachers guide pg 57-59 Top-mark secondary Agric Revision pg 29	
7	1	Water supply irrigation and drainage	Water supply Source importance	By the end of the lesson, the learner should be able to Describe the various sources of water in the farm State the importance in the farm	Describing sources of water Stating the importance of water in the farm	Drawing in student book Photographs of dam, boreholes	KLB secondary Agriculture form 1 pg 120-126 Certificate F1 pg 94-100 Longhorn secondary Agriculture form 1 pg 116-121 Teachers guide pg 62-63 Gateway Agriculture revision paper 1 page 127-288	
	2-3	Water Supply Irrigation and drainage	Water collection storage of water Pumping of water Conveyance of water	By the end of the lesson, the learner should be able to Describe collection, pumping and conveyance of water	Describing collecting, pumping and conveyance of water	Pipes Pumps Tanks Water treatment plant Diagrams in students book	KLB secondary Agriculture form 1 pg 120-126 Certificate F1 pg 94-100 Longhorn secondary Agriculture form 1 pg 116-121 Teachers guide pg 62-63 Gateway Agriculture revision paper 1 page 127-288	
8	1	Water Supply	Water treatment	By the end of the lesson, the	Stating the methods of water	Charts	KLB secondary Agriculture form 1 pg 126-129	

		irrigation and drainage	methods and importance	learner should be able to State methods of water treatment Describe the method State the importance of water treatment	treatment Describing the methods Stating importance of water	Water treatment plants Diagrams in the student book	Certificate F1 pg 98-100 Longhorn secondary Agriculture form 1 pg 121-125 Teachers guide pg 62-63 Gateway Agriculture revision paper 1 page 129-130	
	2-3		Irrigation Definition Importance methods	By the end of the lesson, the learner should be able to define irrigation state the importance of irrigation		charts school farm students book photographs	KLB secondary Agriculture form 1 pg 129-130 Certificate F1 pg 101-103 Longhorn secondary Agriculture form 1 pg 125-129 Teachers guide pg 62-63 Gateway Agriculture revision paper 1 page 130 Top mark secondary Agriculture pg 16	
9	1	Water supply, irrigation and drainage	Methods of irrigation surface/basin irrigation Overhead irrigation	By the end of the lesson, the learner should be able to Describe surface and overhead irrigation	Describing surface and overhead irrigation	School farm Drawings in students book Photographs, sprinklers and spades	KLB secondary Agriculture form 1 pg 130-131,134 Certificate F1 pg 104-106 Longhorn secondary Agriculture form 1 pg 128-130 Teachers guide pg 62-63	
	2-3	Water supply, irrigation and drainage	Methods of irrigation Drip irrigation Sub-surface	By the end of the lesson, the learner should be able to Describe drip and sub-surface irrigation	Describe both drip and sub-surface irrigation	School farm Drawings in the students book Photographs Bottles pipes	KLB secondary Agriculture form 1 pg 132-134 Certificate F1 pg 107-108 Longhorn secondary Agriculture form 1 pg 131-133 Teachers guide pg 62-63	

							Gateway Agriculture revision paper 1 page 132,134 Top mark secondary Agriculture pg 16	
10	1	Water supply and irrigation and drainage	Drainage Definition Importance Causes of poor drainage	By the end of the lesson , the learner should be able to Define drainage Explain the importance of drainage Describe causes of poor drainage	Defining drainage Explaining the importance of drainage Describe the causes of poor drainage	Charts Photographs Diagrams in the student book	KLB secondary Agriculture form 1 pg 136-139 Certificate F1 pg 108-109 Longhorn secondary Agriculture form 1 pg 133-134 Teachers guide pg 63-65 Gateway Agriculture revision paper 1 page 134-134	
	2-3	Water supply irrigation and drainage	Methods of drainage Water pollution	By the end of the lesson, the learner should be able to Describe methods of drainage Define water pollution Explain how farming practices causes pollution	Describe methods of drainage Defining water pollution Explain how farming practices cause pollution	School farm Drawing in students book Photographs Polluted water School farm	KLB secondary Agriculture form 1 pg 137-141 Certificate F1 pg 108-110 Longhorn secondary Agriculture form 1 pg 135-138 Teachers guide pg 63-65 Gateway Agriculture revision paper 1 page 136	
11	1	Soil Fertility (organic) (Manures)	Soil fertility	By the end of the lesson, the learner should be able to Define soil fertility Explain the factor influencing soil fertility	Define soil fertility Explain factors influencing soil fertility	Soil samples Charts School farm	KLB secondary Agriculture form 1 pg 140-144 Certificate F1 pg 112-113 Longhorn secondary Agriculture form 1 pg 140 Teachers guide pg 63-65 Gateway Agriculture revision paper 1 page 136	
							KLB secondary Agriculture	

	2-3	Soil Fertility	Soil Fertility	By the end of the lesson, the learner should be able to Explain how soil fertility loses its fertility Describe how soil fertility can be maintained	Explaining how soil loses its fertility Describing how soil fertility is maintained	Leached soils Samples of fertile soil Eroded soil	form 1 pg 143-146 Certificate F1 pg 112-113 Longhorn secondary Agriculture form 1 pg 141-142 Teachers guide pg 68-69 Gateway Agriculture revision paper 1 page 61-62		
12	1	Organic manure	Definition importance	By the end of the lesson, the learner should be able to Define organic manures Explain the importance of organic manure	Definition Explanation of importance of organic manure	Chalkboard School farm charts	KLB secondary Agriculture form 1 pg 146-147 Certificate F1 pg 113 Longhorn secondary Agriculture form 1 pg 143-144 Teachers guide pg 69-71 Gateway Agriculture revision paper 1 page 62-63		
	2-3	Organic Manure	Types of organic manure	By the end of the lesson, the learner should be able to State the 3 types of organic manure Describe preparation of green manure Describe preparation of farmyard manure Describe preparation of compost manure	Stating types of organic manure Describing the preparation of green, farmyard and compost manure	Sample of green manure Sample of compost manure Sample of farm yard	KLB secondary Agriculture form 1 pg 148-154 Certificate F1 pg 114-117 Longhorn secondary Agriculture form 1 pg 145-150 Teachers guide pg 69-71 Gateway Agriculture revision paper 1 page 63-64 Top mark revision Agriculture for m 1 page 31-33		
13	END OF TERM TWO EXAMINATIONS								
14	MARKING AND CLOSING								

AGRICULTURE SCHEMES OF WORK
FORM ONE 2013
TERM III

REFERENCES:

1. Longhorn Secondary Agriculture Book
2. Top mark Agriculture
3. Certificate Agriculture Book
4. Gateway Agriculture revision
5. KLB Secondary Agriculture
6. Teacher's Guide

W K	LS N	TOPIC	SUB-TOPIC	OBJECTIVES	L/ACTIVITIES	L/T AIDS	REFERENCE	REMARKS
1	1	Livestock Breeds	Importance of livestock	By the end of the lesson, the learner should be able to Explain the importance of livestock to man	Explaining the importance of livestock to man Asking and answering questions	Photographs of livestock Livestock products e,g skin, milk	KLB secondary Agriculture form 1 pg 155 Certificate Secondary Agriculture F1 pg 118 Longhorn secondary Agriculture form 1 pg 152-	

							153 Teachers guide pg 73-74 Gateway Agriculture revision paper 1 page 62-63 Top mark Agriculture page 173	
	2-3	Livestock Breeds	Cattle breeds Exotic indigenous	By the end of the lesson, the learner should be able to state examples of exotic and indigenous breeds describe the characteristics of exotic and indigenous cattle	stating examples describing the characteristics of exotic and local cattle breeds	charts photographs school farm drawings from student books	KLB secondary Agriculture form 1 pg 155 Certificate Secondary Agriculture F1 pg 118 Longhorn secondary Agriculture form 1 pg 152-153 Teachers guide pg 73-74 Gateway Agriculture revision paper 1 page 62-63 Top mark Agriculture page 173	
2	1-3	Livestock breeds	Dairy Cattle breeds	By the end of the lesson, the learner should be able to Identify various breeds Describe their characteristics Draw and label the external parts of cattle	Describing the characteristics of cattle breeds Drawing the external parts of the cattle Labeling the external parts of the cattle Identifying various breeds	Charts Photographs Drawing from the students book School farm	KLB secondary Agriculture form 1 pg 159-162 Certificate Secondary Agriculture F1 pg 119-122 Longhorn secondary Agriculture form 1 pg 158-162 Teachers guide pg 73-77 Gateway Agriculture revision paper 1 page 1-4 Top mark Agriculture page 173	
3	1-2	Livestock Breeds	Beef breeds	By the end of the lesson, the learner should be able to Identify various breeds	Identifying various breeds Describing the characteristics of cattle breeds	Charts Photographs School farm	KLB secondary Agriculture form 1 pg 162-165 Certificate Secondary	

				Describe their characteristics Draw the external parts of cattle Label the external parts of the cattle	Drawing external parts of cattle Labeling the external parts of cattle	Drawings from the student's book.	Agriculture F1 pg 124-126 Longhorn secondary Agriculture form 1 pg 155-158 Teachers guide pg 73-77 Gateway Agriculture revision paper 1 page 3-4	
	3	Livestock Breeds	Dual Purpose Breeds	By the end of the lesson, the learner should be able to Identify various breeds Describe their characteristics Draw and label the external parts of the cattle	Identifying various breeds Describing their characteristics Drawing and labeling their external parts	Charts Photographs Wall hangings showing dual breeds School farm Drawing from the students book	KLB secondary Agriculture form 1 pg 164-165 Certificate Secondary Agriculture F1 pg 127-129 Longhorn secondary Agriculture form 1 pg 164-168 Teachers guide pg 73-77 Gateway Agriculture revision paper 1 page 1-4 Top mark Agriculture page 75	
4	1-3	Livestock Breeds	Sheep breeds Wool sheep Mutton sheep Dual sheep	By the end of the lesson, the learner should be able to Identify various breeds Describe their characteristics Draw the external parts of sheep Labeling the external parts	Identifying the various breeds Describing their characteristics Drawing the external parts of the sheep Labeling the external parts	Charts Photograph School farm Drawings from the students book	KLB secondary Agriculture form 1 pg 174-179 Certificate Secondary Agriculture F1 pg 129-134 Longhorn secondary Agriculture form 1 pg 164-168 Teachers guide pg 73-77 Gateway Agriculture revision paper 1 page 8 Top mark Agriculture page 75-76	
5	1-3	Livestock breeds	Goats Breeds Milk	By the end of the lesson, the learner should be able to	identifying various breeds describing the characteristics	charts photographs	KLB secondary Agriculture form 1 pg 179-182	

			Meat Hair	identify various breeds describe their characteristics draw the external parts of the goat label the external parts of the goat	of goat breeds drawing the external parts of the goat	drawing from the student books school farm	Certificate Secondary Agriculture F1 pg 135-137 Longhorn secondary Agriculture form 1 pg 169-173 Teachers guide pg 73-77 Top mark Agriculture page 76	
6	1-3	Livestock Breeds	Pigs Breeds Bacon pork	By the end of the lesson, the learner should be able to Identify various breeds of pigs Describe their characteristics Draw the external parts of pigs Labeling the external parts of the goat	Identifying various breeds Drawing the various external parts of a pig Labeling the external parts Describing the characteristics	Drawings from the students book Photographs Charts School farm	KLB secondary Agriculture form 1 pg 165-171 Certificate Secondary Agriculture F1 pg 139-140 Longhorn secondary Agriculture form 1 pg 174-178 Teachers guide pg 73-77 Gateway Agriculture revision paper 1 page 5-6 Top mark Agriculture page 77	
7	1-3	Livestock Breeds	Chicken Light breeds Heavy breeds Dual purposes hybrids	By the end of the lesson, the learner should be able to identify various breeds describe their characteristics draw the various external parts draw the various external parts label the various external parts	identify various breeds describing the characteristic of various breeds drawing the external parts of chicken labeling the various parts of the chicken	school farm photographs charts drawings from the students books	KLB secondary Agriculture form 1 pg 171-174 Certificate Secondary Agriculture F1 pg 143-145 Longhorn secondary Agriculture form 1 pg 178-182 Teachers guide pg 73-77 Gateway Agriculture revision paper 1 page 6-7 Top mark Agriculture page 77	
8	1	Livestock breeds	Rabbit breed	By the end of the lesson, the	Identifying various breeds	Photographs	KLB secondary Agriculture	

			Characteristics drawings	learner should be able to Identify various breeds Describe their characteristics Draw and label the external parts	Describing their characteristics Drawing the external parts of rabbit Labeling the various parts	Charts Drawings in the students book School farm	form 1 pg 182-184 Certificate Secondary Agriculture F1 pg 141-142 Longhorn secondary Agriculture form 1 pg 164-168 Teachers guide pg 73-77 Top mark Agriculture page 78	
	2-3	Livestock breeds	Camels, donkeys breeds Characteristics drawings	By the end of the lesson, the learner should be able to Identify various breeds Describe characteristics Draw and label external parts of camels	Identifying various breeds Describing their characteristics Drawing external parts Labeling the various parts	Drawings in the students book School farm Charts photographs	KLB secondary Agriculture form 1 pg 185-186 Certificate Secondary Agriculture F1 pg 146-147 Longhorn secondary Agriculture form 1 pg 186 Teachers guide pg 73-77 Gateway Agriculture revision paper 1 page 10-11 Top mark Agriculture page 78	
9	1	Livestock breeds	Terms used to describe livestock Age Sex Use	By the end of the lesson, the learner should be able to Explain the terms used to describe livestock	Explaining the various terms used to describe livestock	School farm Charts Photographs Drawing from the student book	KLB secondary Agriculture form 1 pg 164-165 Longhorn secondary Agriculture form 1 pg 164-168 Teachers guide pg 73-77	

	2-3	Agriculture Economics	Economics Definition Agricultural economics	By the end of the lesson, the learner should be able to Define economics Define agricultural economics Explain the factors of	Defining economics Explaining the factors of production	Flow chart Students book	KLB secondary Agriculture form 1 pg 189 Certificate Secondary Agriculture F1 pg 149 Longhorn secondary Agriculture form 1 pg 190-	
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				production			191 Teachers guide pg 78-80	
10	1	Agricultural Economics	Basic concepts of economics principles Scarcity Opportunity cost Preference & choice	By the end of the lesson, the learner should be able to State basics concepts of economics Explain the basic concepts of economics	State basic concepts Explaining the basic concepts of economics	Students books Chalk board	KLB secondary Agriculture form 1 pg 189-190 Certificate Secondary Agriculture F1 pg 149-150 Longhorn secondary Agriculture form 1 pg 191-192 Teachers guide pg 78-80	
	2-3	Agricultural Economics	Farm records define Types of records importance	By the end of the lesson, the learner should be able to Define farm records Explain the uses of farm records Describe breeding and feeding records	Defining farm records Explaining uses of farm records Describing breeding and feeding records	Sample records School farm Sample records in students book	KLB secondary Agriculture form 1 pg 190-191,194-196 Certificate Secondary Agriculture F1 pg 150-156-158 Longhorn secondary Agriculture form 1 pg 193-196 Teachers guide pg 80-81	
11	1	Agricultural Economics	Farm records Production records Health records Field records	By the end of the lesson, the learner should be able to State the farm records Describing production health, field records	Stating farm records Describing production, health and field records	Diagrams on students book Charts chalkboard	KLB secondary Agriculture form 1 pg 193,197 Certificate Secondary Agriculture F1 pg 152-154 Longhorn secondary Agriculture form 1 pg 198-200 Teachers guide pg 80-81 Gateway Agriculture revision paper 1 page 1-4 Top mark Agriculture page 75	

AGRICULTURE SCHEMES OF WORK
FORM TWO 2013
TERM I

REFERENCES:

7. Longhorn Secondary Agriculture Book
8. Golden Tips KCSE Agriculture
9. Certificate Agriculture Book
10. KLB Top Mark Agriculture
11. KLB Secondary Agriculture
12. Teacher's Guide

W K	LS N	TOPIC	SUB-TOPIC	OBJECTIVES	L/ACTIVITIES	L/T AIDS	REFERENCE	REMARKS
1	1	Soil Fertility (II)	Essential elements	By the end of the lesson, the learner should be able to List essential elements Classify the essential elements	Listing essential elements Classifying the essential elements	Students book Charts on classification of essential minerals	KLB secondary Agriculture form 2 pg 1,6 Certificate Secondary Agriculture F2 pg 1-2 Longhorn secondary Agriculture form 2 pg 1-2 Teachers guide pg 33-36 Gateway Agriculture revision paper 1 page 37, 39 Top mark Agriculture page 37	

	2-3	Soil Fertility (II)	Essential elements	By the end of the lesson, the learner should be able to State the role of each macro-element Describe the deficiency symptoms of the macro-nutrients	Stating the role of macro-elements Describing the deficiency symptoms of the macro-nutrients	Photographs Tables in student books Plant samples	KLB secondary Agriculture form 2 pg 1-5 Certificate Secondary Agriculture F2 pg 2-5 Longhorn secondary Agriculture form 1 pg 2-12 Teachers guide pg 33-36 Gateway Agriculture revision paper 1 page 1-4 Top mark Agriculture page 37-38	
2	1	Soil Fertility (II)	Essential elements	By the end of the lesson, the learner should be able to State the role of each micro-element Describe the deficiency symptoms of the macro-nutrients	Stating the role of micro nutrients Describing their deficiency symptoms	Photographs Tables in the students book Plant samples	KLB secondary Agriculture form 1 pg 6-7 Certificate Secondary Agriculture F1 pg 1-2 Longhorn secondary Agriculture form 1 pg 10-11 Teachers guide pg 33-36 Gateway Agriculture revision paper 1 page 66-68 Top mark Agriculture page 75	
	2-3	Soil Fertility (II)	Inorganic fertilizers	By the end of the lesson, the learner should be able to Classify fertilizers Identify fertilizers Describe the properties of various fertilizers	Classifying fertilizers Identifying fertilizers Describing the properties of various fertilizers	Photographs of fertilizers Students book Fertilizers samples	KLB secondary Agriculture form 1 pg 7-12 Certificate Secondary Agriculture F1 pg 5-8 Longhorn secondary Agriculture form 1 pg 11-18 Teachers guide pg 36-38 Gateway Agriculture revision paper 1 page 66-70	
3	1	Soil Fertility (II)	Inorganic fertilizers	By the end of the lesson, the learner should be able to	Stating various methods Explaining various methods	School farm Buckets	KLB secondary Agriculture form 2 pg 12-13 Certificate Secondary	

				State methods of fertilizer application Explaining various methods of fertilizer application	of fertilizer application Describing the various methods of fertilizer application	Fertilizer samples Panga Soil Spade	Agriculture F2 pg 9 Longhorn secondary Agriculture form 1 pg 18-21 Teachers guide pg 36-38 Gateway Agriculture revision paper 1 page 70	
	2-3	Soil Fertility (II)	Inorganic fertilizers	By the end of the lesson, the learner should be able to Calculate the fertilizer grade Calculate fertilizer ratio Determine fertilizer amount per lecture	Calculating fertilizer rates	School farm Students book	KLB secondary Agriculture form 1 pg 6-7 Certificate Secondary Agriculture F1 pg 1-2 Longhorn secondary Agriculture form 1 pg 10-11 Teachers guide pg 33-36 Gateway Agriculture revision paper 1 page 66-68 Top mark Agriculture page 75	
4	1	Soil Fertility(II)	Soil Sampling	By the end of the lesson, the learner should be able to Define soil sampling Explain the sampling methods Describe sampling procedures	Defining soil sampling Explain the sampling methods Describing sampling procedures	Charts Soil samples Students book Polythene bags	KLB secondary Agriculture form 2 pg 20-21 Certificate Secondary Agriculture F1 pg 11 Longhorn secondary Agriculture form 2 pg 23-24 Teachers guide pg 39-41 Top mark Agriculture page 41-42	
	2-3	Soil Fertility(II)	Soil testing	By the end of the lesson, the learner should be able to Define soil testing Explain the importance of soil testing Describe soil testing procedure Explain how soil PH affects crop production	Defining soil testing Explaining the importance of soil testing Describing soil testing procedure Explaining how	Test tubes Diagrams in students book Distilled water Soil testing reagents PH scale	KLB secondary Agriculture form 1 pg 22-26 Certificate Secondary Agriculture F1 pg 12-13 Longhorn secondary Agriculture form 1 pg 24-28 Teachers guide pg 39-41	

							Gateway Agriculture revision paper 1 page 71 Top mark Agriculture page 42	
5	1	Crop Production (II)	Planting materials	By the end of the lesson, the learner should be able to Describe types of planting materials State advantages and disadvantages of planting materials	Describing types of planting materials Stating the advantages and disadvantages	Seed samples Vegetative parts Students book School farm	KLB secondary Agriculture form 1 pg 27-28 Certificate Secondary Agriculture F1 pg 15-17 Longhorn secondary Agriculture form 1 pg 33-35 Teachers guide pg 45-46 Gateway Agriculture revision paper 1 page 28	
	2-3	Crop production (II)	Planting materials	By the end of the lesson, the learner should be able to State various parts used for vegetative propagation Describe various parts used for vegetative propagation	Stating various parts Describing various parts used for vegetative propagation	School farm Various vegetative parts Diagrams in the students book	KLB secondary Agriculture form 2 pg 29-34 Certificate Secondary Agriculture F1 pg 15-17 Longhorn secondary Agriculture form 2 pg 35-40 Teachers guide pg 45-47 Gateway Agriculture revision paper 1 page 29-30	
6	1	Crop Production (II)	Selection of planting materials	By the end of the lesson, the learner should be able to Select planting materials	Selecting planting materials	Tape measure Student's books School farm Planting line Seed dressers Planting materials	KLB secondary Agriculture form 2 pg 34-35 Certificate Secondary Agriculture F1 pg 18-19 Longhorn secondary Agriculture form 2 pg 35-40 Teachers guide pg 47-48 Gateway Agriculture revision paper 1 page 30	
	2-3	Crop Production (II)	Preparation of Planting	By the end of the lesson, the learner should be able to	Preparing planting materials Determining optimum	Planting line Tape measure	KLB secondary Agriculture form 2 pg 35-39 Certificate Secondary	

			Breaking seed dormancy Dressing Seed inoculation chitin	Prepare planting materials Determine optimum planting time Describe methods of planting	planting time Describing methods of planting	Planting materials	Agriculture F1 pg 20-22 Longhorn secondary Agriculture form 2 pg 49-50 Teachers guide pg 35-39 Gateway Agriculture revision paper 1 page 30-32	
7	1	Crop production (II)	Plant population	By the end of the lesson, the learner should be able to Calculate plant population of various crops	Calculating plant population	Charts School farm Seeds for planting	KLB secondary Agriculture form 2 pg 29-34 Certificate Secondary Agriculture F1 pg 26 Longhorn secondary Agriculture form 2 pg 49-50 Teachers guide pg 50-51 Gateway Agriculture revision paper 1 page 32	
	2-3	Crop Production (II)	Spacing seed rate planting depth	By the end of the lesson, the learner should be able to State factors determining spacing, seed rate and depth Explain the factors which determine spacing depth and seed rate	Stating factors Explaining factors which determine spacing, depth and seed rate	Tape measure School farm Panga Jembe Students book diagram	KLB secondary Agriculture form 2 pg 42-45 Certificate Secondary Agriculture F1 pg 24-26 Longhorn secondary Agriculture form 2 pg 50-54 Teachers guide pg 51-52 Gateway Agriculture revision paper 1 page 32-33	
8	1	Crop Production (III) Nursery practices	Nursery practices Nursery bed Seed bed Seedling bed	By the end of the lesson, the learner should be able to Define nursery practices Describe nursery bed, seed bed and seedling bed Distinguish between nursery, seedling and seed bed	Garden tools School farm Nursery beds Students book Diagrams on the students book charts	garden tools school farm nursery beds students book diagrams on the students book charts	KLB secondary Agriculture form 2 pg 46 Certificate Secondary Agriculture F1 pg 28 Longhorn secondary Agriculture form 2 pg 56-57 Teachers guide pg 54-56 Gateway Agriculture revision	

							paper 1 page 34	
	2-3	Crop Production (III) Nursery Practices	Nursery bed Importance Site selection Vegetable nurseries	By the end of the lesson, the learner should be able to State the importance of nursery in crop propagation Select a suitable site for the nursery Prepare a nursery bed for vegetables	Stating importance of nursery Selecting suitable sites for nursery Preparing nursery bed for vegetables	Nursery beds School farm Diagrams from students books Garden tools Students books	KLB secondary Agriculture form 2 pg 46-49 Certificate Secondary Agriculture F1 pg 28-29 Longhorn secondary Agriculture form 2 pg 57-58 Teachers guide pg 54-56 Gateway Agriculture revision paper 1 page 34-35 Top mark Agriculture page 34	
9	1	Crop Production (III) Nursery Practices	Nursery establishment	By the end of the lesson, the learner should be able to © Education Plus Agencies Establish a vegetable nursery Establish a tree nursery	Establishing a vegetable and a tree nursery	Charts Diagrams from students book School farm School nurseries Boxes Grass	KLB secondary Agriculture form 2 pg 48-49 Certificate Secondary Agriculture F1 pg 29-32 Longhorn secondary Agriculture form 2 pg 58-60 Teachers guide pg 54-56 Top mark Agriculture page 34	
	2-3	Crop production (III)	Nursery Establishment	By the end of the lesson, the learner should be able to Establish tea nursery using cuttings Manage a nursery bed	Establishing tea nursery using cuttings Managing nursery bed	Tea cuttings photographs School farm Diagrams from students book	KLB secondary Agriculture form 2 pg 49-51 Certificate Secondary Agriculture F1 pg 30-32 Longhorn secondary Agriculture form 2 pg 60-62 Teachers guide pg 54-58 Gateway Agriculture revision paper 1 page 35	
10	1	Crop production (III)	Grafting	By the end of the lesson, the learner should be able to Define grafting Describe the methods of	Defining grafting Describing methods of grafting Giving reasons for grafting	Knives Grafting materials Students books Raising boxes	KLB secondary Agriculture form 2 pg 53-55 Certificate Secondary Agriculture F1 pg 35-36	

				grafting Give reasons for grafting			Longhorn secondary Agriculture form 2 pg 64-65 Teachers guide pg 58-59 Gateway Agriculture revision paper 1 page 36 Top mark Agriculture page 35-36	
	2-3		Budding	By the end of the lesson, the learner should be able to Define budding Describe methods of budding State the importance of budding	Defining budding Describing methods of budding Giving reasons for budding	School farm Water Budding materials Students book knives	KLB secondary Agriculture form 2 pg 55-58 Certificate Secondary Agriculture F1 pg 34-35 Longhorn secondary Agriculture form 2 pg 66-70 Teachers guide pg 57-59 Gateway Agriculture revision paper 1 page 36 Top mark Agriculture page 35	
11	1	Crop Production (III)	layering	By the end of the lesson, the learner should be able to Define layering Describe methods of layering State the importance of layering	Defining layering Describing methods of layering Giving importance of layering	Peg Strings School farm Root medium Student books	KLB secondary Agriculture form 2 pg 58-60 Certificate Secondary Agriculture F1 pg 41-44 Longhorn secondary Agriculture form 2 pg 71-72 Teachers guide pg 59 Gateway Agriculture revision paper 1 page 36-37 Top mark Agriculture page 35	
	2-3	Crop production (III)	Tissue culture Transplanting seedlings	By the end of the lesson, the learner should be able to Define tissue culture Explain importance of tissue culture in crop propagation Describe the procedure of	Defining tissue culture Explaining importance of tissue culture Describing procedure of transplanting seedlings	School farm Garden trowel School nursery Seedlings Diagrams Students books	KLB secondary Agriculture form 2 pg 61-66 Certificate Secondary Agriculture F1 pg 41-44 Longhorn secondary	

				transplanting seedlings			Agriculture form 2 pg 72-77 Teachers guide pg 60-61 Gateway Agriculture revision paper 1 page 36-37 Top mark Agriculture page 35	
12		TOPICAL REVISION						
13		END OF TERM ONE EXAMINATIONS						
14		CLOSING						
15								

AGRICULTURE SCHEMES OF WORK
FORM TWO 2013
TERM II

REFERENCES:

1. Longhorn Secondary Agriculture Book
2. Golden Tips KCSE Agriculture
3. Certificate Agriculture Book
4. KLB Top Mark Agriculture
5. KLB Secondary Agriculture
6. Teacher's Guide

W K	LS N	TOPIC	SUB-TOPIC	OBJECTIVES	L/ACTIVITIES	L/T AIDS	REFERENCE	REMARKS
1	1	Crop Production (IV) Field practices	Crop Rotation	By the end of the lesson, the learner should be able to Define crop rotation Explain the importance of crop rotation	Defining crop rotation Explaining the importance of crop rotation Stating principles of crop rotation	Charts School farm Diagrams in the students book	KLB secondary Agriculture form 2 pg 67-68 Certificate Secondary Agriculture F1 pg 50	

				State principles of crop rotation			Teachers guide pg 59 Gateway Agriculture revision paper 1 page 40 Top mark Agriculture page 43
	2-3	Crop production (IV) field practices	Crop Rotation	By the end of the lesson, the learner should be able to Identify factors influencing crop rotation Draw a crop rotation programme Distinguish terms used in crop farming	Identifying factors influencing crop rotation Drawing a crop rotation programme Distinguishing terms used in crop farming	Photographs Charts School farm Diagrams in the students book	KLB secondary Agriculture form 2 pg 69-71 Certificate Secondary Agriculture F1 pg 50-51 Longhorn secondary Agriculture form 2 pg 79-80 Teachers guide pg 84-88 Gateway Agriculture revision paper 1 page 40-42
2	1	Field Practices	Mulching	By the end of the lesson, the learner should be able to Define mulching State the importance of mulching	Defining mulching Stating the importance of mulching	Samples of mulch School farm Photograph in students book	KLB secondary Agriculture form 2 pg 71-72 Certificate Secondary Agriculture F1 pg 51-52 Longhorn secondary Agriculture form 2 pg 82-84 Teachers guide pg 59 Gateway Agriculture revision paper 1 page 36-37 Top mark Agriculture page 43
	2-3	Field Practices	Routine Field practices Thinning Gapping Training	By the end of the lesson, the learner should be able to State the various routine practices Describe importance of field practices Carry out field practices	Stating various routine practices Describing importance of field practices Carrying out field practices	School farm Pruning saw Pruning knives Jembes Diagrams in students book wire	KLB secondary Agriculture form 2 pg 72-74 Certificate Secondary Agriculture F1 pg 52-54 Longhorn secondary Agriculture form 2 pg 88-90 Teachers guide pg 67-68 Gateway Agriculture revision

							paper 1 page 36-37 Top mark Agriculture page 44	
3	1	Field Practices	Pruning	By the end of the lesson, the learner should be able to Define pruning Give reasons for pruning Describe procedure of pruning	Defining pruning Giving reasons for pruning Describing the procedure of pruning	Running tools School farm Diagrams in the students book secateurs	KLB secondary Agriculture form 2 pg 73-75 Certificate Secondary Agriculture F2 pg 41-44 Longhorn secondary Agriculture form 2 pg 91-93 Teachers guide pg 67-68 Gateway Agriculture revision paper 1 page 42-43 Top mark Agriculture page 44	
	2-3	Field practices	Tea Pruning	By the end of the lesson, the learner should be able to Describe methods of pruning in tea Describe plucking table formation	Describe methods of pruning in tea Describing the plucking table formation Note taking Demonstration of plucking table formation	Pegs Rings School farm Charts Diagrams in the students book Photographs farms	KLB secondary Agriculture form 2 pg 76-80 Certificate Secondary Agriculture F2 pg 54-57 Longhorn secondary Agriculture form 2 pg 93-96 Teachers guide pg 67-68 Gateway Agriculture revision paper 1 page 43	
4	1	Field practices	Coffee pruning	By the end of the lesson, the learner should be able to Give reasons for pruning coffee Describing the methods of pruning coffee	Giving reasons for pruning coffee Describing the methods of pruning coffee	Farms Photographs Diagrams in the students book	KLB secondary Agriculture form 2 pg 81-84 Certificate Secondary Agriculture F2 pg 57-59 Longhorn secondary Agriculture form 2 pg 96-98 Teachers guide pg 67-68 Gateway Agriculture revision paper 1 page 43-44	
	2-3	Field practices	Pruning in bananas Pruning pyrethrum	By the end of the lesson, the learner should be able to	Stating the importance of various practices		KLB secondary Agriculture form 2 pg 85-87	

			Earthling up Weed control Pest and disease control	Describe how to carry out the routine field practices State the importance of each practices	Describing how to carry out the routine field practices		Certificate Secondary Agriculture F2 pg 60 Longhorn secondary Agriculture form 2 pg 98-101 Teachers guide pg 67-68 Top mark Agriculture page 44
5	1	Field Practices	Harvesting	By the end of the lesson, the end of the learner should be able to State the stage of harvesting Explain timing of harvesting Describe the methods of harvesting	Stating the stage of harvesting Explaining timing of harvesting Describing harvesting methods	Crops Photographs in students book Diagrams in the students book School farm	KLB secondary Agriculture form 2 pg 73-75 Certificate Secondary Agriculture F2 pg 60 Longhorn secondary Agriculture form 2 pg 101-104 Teachers guide pg 68 Top mark Agriculture page 44-45
	2-3	Field Practices	Post harvesting practices	By the end of the lesson, the leaner should be able to explain post harvesting practices state importance of storage describe storage methods	explaining post harvesting practices stating importance of storage describing harvesting methods	crops photographs in students book diagrams in the students book school farm	KLB secondary Agriculture form 2 pg 90-94 Certificate Secondary Agriculture F2 pg 60-66 Longhorn secondary Agriculture form 2 pg 103-105 Teachers guide pg 67-68 Top mark Agriculture page 45
6	1	Crop production (V) vegetables	Cabbages/kales	By the end of the lesson, the learner should be able to State importance of vegetables Describe the production of the vegetable crop from nursery to harvesting Keep crop production records Market the vegetable produce	Stating importance of vegetables Describing vegetable production Keeping crop production record marketing the vegetable produce	pesticides herbicides fertilizers photographs students book school farm crops	KLB secondary Agriculture form 2 pg 96-99 Certificate Secondary Agriculture F2 pg 74-78 Longhorn secondary Agriculture form 2 pg 107-111 Teachers guide pg 72-75 Gateway Agriculture revision paper 1 page 47-48

							Top mark Agriculture page 45	
	2-3	Crop production (V) vegetable	Cabbages/Kales	By the end of the lesson, the learner should be able to State importance of vegetables Describe the production of the vegetable crops from nursery to harvesting Keep crop production records Market the vegetable produce	Stating importance of vegetables Describing vegetable production Keeping crop production records Marketing the vegetable produce	Pesticides Herbicides Fertilizers Photographs Diagrams from the students book Crops School farm	KLB secondary Agriculture form 2 pg 96-99 Certificate Secondary Agriculture F2 pg 60-66 Longhorn secondary Agriculture form 2 pg 107-111 Teachers guide pg 72-75 Gateway Agriculture revision paper 1 page 47-48	
7	1	Crop production (V) vegetables production	Tomatoes	By the end of the lesson, the learner should be able to State the importance of tomatoes Describe the production of tomatoes from nursery to harvesting Keep crop production records Market the produce	Stating the importance of tomatoes Describing tomatoes production Keeping crop production records Marketing the produce	Photographs Students book School farm Garden tools Pesticides Herbicides fertilizers	KLB secondary Agriculture form 2 pg 100-106 Certificate Secondary Agriculture F2 pg 67-71 Longhorn secondary Agriculture form 2 pg 112-115 Teachers guide pg 67-68 Gateway Agriculture revision paper 1 page 48-49	
	2-3	Crop production (V) vegetable production	Carrots onions	By the end of the lesson, the learner should be able to State importance of carrots and onions Describe the production of tomatoes from nursery to harvesting Keep crop production records Market the produce	Stating the importance of carrots & onions Describing their production Keeping crop production records Marketing the produce	School farm Garden tools Pesticides Herbicides Fertilizers photographs	KLB secondary Agriculture form 2 pg 90-94 Certificate Secondary Agriculture F2 pg 60-66 Longhorn secondary Agriculture form 2 pg 103-105 Teachers guide pg 67-68 Gateway Agriculture revision paper 1 page 42-43 Top mark Agriculture page 48-49	
8	1	Livestock Health (I) Disease	Health disease	By the end of the lesson, the learner should be able to	Defining health and disease Stating the importance of	Livestock species Farm	KLB secondary Agriculture form 2 pg 115-119 Certificate Secondary	

				Define health and disease State the importance of livestock health State the predisposing factors of diseases	livestock health Stating the predisposing factors of diseases	Students book	Agriculture F2 pg 82-85 Longhorn secondary Agriculture form 2 pg 121-122 Teachers guide pg 77 Gateway Agriculture revision paper 1 page 52 Top mark Agriculture page 80	
	2-3	Livestock health (i) disease	Signs of ill/good health in livestock	By the end of the lesson, the learner should be able to Describe signs of sickness in livestock Describe signs of good health in livestock	Describing signs of sickness in livestock Describing signs of good health in livestock	Livestock species Farm animals Diagrams in the students book Farm	KLB secondary Agriculture form 2 pg 116-119 Certificate Secondary Agriculture F2 pg 82-85 Longhorn secondary Agriculture form 2 pg 123-124 Teachers guide pg 77 Top mark Agriculture page 80	
9	1	Livestock Health (Disease)	Classification of livestock diseases Causes of livestock diseases	By the end of the lesson, the learner should be able to Explain the causes of livestock diseases Classify livestock diseases	Explaining causes of livestock diseases Classifying livestock diseases	Student book Chart Farm animals Tables in the students book	KLB secondary Agriculture form 2 pg 120-125 Certificate Secondary Agriculture F2 pg 86-88 Longhorn secondary Agriculture form 2 pg 123-124 Teachers guide pg 77 Gateway Agriculture revision paper 1 page 52-53	
	2-3	Livestock Health (disease)	General methods of disease control	By the end of the lesson, the learner should be able to Describe the various methods of disease control Carry out disease control measures	Describing methods of disease control Carrying out disease control	Livestock tolls Farm animals Students book Diagrams in the students book	KLB secondary Agriculture form 2 pg 125-128 Certificate Secondary Agriculture F2 pg 89-91 Longhorn secondary Agriculture form 2 pg 126-127 Teachers guide pg 78-79 Top mark Agriculture page 80	

10	1-3	Livestock Health (Disease)	Appropriate methods of handling livestock	By the end of the lesson, the learner should be able to State the reasons why animals are handled Explain the reasons why animals are handled	Stating the reasons Explaining the reasons why animals are handles	Farms animals Charts Diagrams in students book Photographs	KLB secondary Agriculture form 2 pg 129 Certificate Secondary Agriculture F2 pg 92 Longhorn secondary Agriculture form 2 pg 128-133 Teachers guide pg 79-80 Gateway Agriculture revision paper 1 page 54 Top mark Agriculture page 81	
11	1-3	Livestock Health (Disease)	Appropriate methods of handling livestock	By the end of the lesson, the learner should be able to State various methods of handling livestock Demonstrate a caring attitude towards livestock	Stating various methods of handling livestock Demonstrating a caring attitude towards livestock0	Diagrams in the students books Farm animals photographs Charts Students books	LB secondary Agriculture form 2 pg 129-132 Certificate Secondary Agriculture F2 pg 95-96 Longhorn secondary Agriculture form 2 pg 128-133 Teachers guide pg 79-80 Gateway Agriculture revision paper 1 page 54	
12		TOPICAL REVISION						
13		END OF TERM TWO EXAMINATIONS						
14		CLOSING						

AGRICULTURE SCHEMES OF WORK
FORM TWO 2013
TERM III

REFERENCES:

1. Longhorn Secondary Agriculture Book
2. Golden Tips KCSE Agriculture
3. Certificate Agriculture Book
4. KLB Top Mark Agriculture
5. KLB Secondary Agriculture
6. Teacher's Guide

W K	LS N	TOPIC	SUB-TOPIC	OBJECTIVES	L/ACTIVITIES	L/T AIDS	REFERENCE	REMARKS
1	1	Livestock Health II (Parasites)	Host parasite relationship	By the end of the lesson, the learner should be able to Define parasites Explain their effects on host	Defining a parasite Explaining the effects of parasites	Farm animals Parasite specimen students book Photographs	KLB secondary Agriculture form 2 pg 133-134 Certificate Secondary Agriculture F2 pg 98 Longhorn secondary Agriculture form 2 pg 134 Teachers guide pg 83 Gateway Agriculture revision paper 1 page 56	
	2-3	Livestock Health (II) parasites	Types of parasites – External parasites – ticks	By the end of the lesson, the learner should be able to Identify types of ticks Describe the life cycle of the parasite Identify the livestock attacked State the control measures	Identifying types of ticks Describing the life cycle of the parasite Identifying the livestock attacked stating the control measures	Parasite specimen Photographs Students book Farm animals	KLB secondary Agriculture form 2 pg 138-143 Certificate Secondary Agriculture F2 pg 98-102 Longhorn secondary Agriculture form 2 pg 135-139 Teachers guide pg 83-85 Gateway Agriculture revision paper 1 page 56-58 Top mark Agriculture page 82	
2	1	Livestock Health (Parasites)	External parasites Tsetse fly mites	By the end of the lesson, the learner should be able to Describe the life cycle of parasite Identify the livestock attacked State the control measures	Describing the life cycle of the parasite Identifying the livestock attacked Stating the control measures	Farm animals Parasites specimen Students book Photographs Diagrams from the students book	KLB secondary Agriculture form 2 pg 134-135 Certificate Secondary Agriculture F2 pg 103,104,107 Longhorn secondary Agriculture form 2 pg 139-141 Teachers guide pg 83-85 Gateway Agriculture revision paper 1 page 52	

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	2-3	Livestock health (Parasites)	External parasites Lice keds	By the end of the lesson, the learner should be able to describe the life cycle of the parasite identify the livestock attacked state the control measures	describing the life cycle of parasite identifying the livestock attacked stating the control measures	farm animals parasites specimen students book photographs diagrams from the students book	KLB secondary Agriculture form 2 pg 136-138 Certificate Secondary Agriculture F2 pg 105-107 Longhorn secondary Agriculture form 2 pg 141-142 Teachers guide pg 83-85 Gateway Agriculture revision paper 1 page 56-58	
3	1	Livestock (Parasites)	Internal parasites Liver flukes (Trematodes)	By the end of the lesson, the learner should be able to Describe the life cycle of the parasites Identify the livestock attacked State the control measures	Describing the life cycle of the parasites Identifying the livestock attacked Stating the control measures	Farm animals Parasites specimens Student books Photographs charts	KLB secondary Agriculture form 2 pg 151-154 Certificate Secondary Agriculture F2 pg 110-113 Longhorn secondary Agriculture form 2 pg 142-144 Teachers guide pg 84-85 Gateway Agriculture revision paper 1 page 56-58 Top mark Agriculture page 83	
	2-3	Livestock Health (Parasites)	Internal parasites Tape worms	By the end of the lesson, the learner should be able to Describe the life cycle of the parasite Identify the livestock attacked State the control measures	Describing the life cycle of the parasite Identifying the livestock attacked Stating the control measures	Charts Farm animals Parasites specimens Students book Photographs Tables on the students book	KLB secondary Agriculture form 2 pg 144-148 Certificate Secondary Agriculture F2 pg 108-110 Longhorn secondary Agriculture form 2 pg 144-146 Teachers guide pg 83-85 Gateway Agriculture revision paper 1 page 60 Top mark Agriculture page 83	
4	1	Livestock health (Parasites)	Internal parasites Round worms	By the end of the lesson, the learner should be able to Describe the life cycle of the	Describing the life cycle of the parasite Identifying the livestock	Farm animals Parasite specimen Students book	KLB secondary Agriculture form 2 pg 149-151 Certificate Secondary	

				parasite Identify the livestock attacked State the control measures	attacked Stating the control measures	photographs	Agriculture F2 pg 112-113 Longhorn secondary Agriculture form 2 pg 146-147 Teachers guide pg 83-85 Top mark Agriculture page 84	
	2-3	Livestock health (parasites)	Principles of controlling Endoparasites Treatment Drug administration	By the end of the lesson, the learner should be able to Explain factors to consider when controlling endoparasites Describe methods of administration of drugs State the rules that are followed in treatment of parasites	Explaining factors considered in controlling endoparasites Describing methods of drug administration Stating the rules followed in treatment of parasites	Chart Students book	KLB secondary Agriculture form 2 pg 154-155 Certificate Secondary Agriculture F2 pg 113-114	
5	1	Livestock production nutrition (II)	Components of food	By the end of the lesson, the learner should be able to Define nutrition Explain major components of food	Defining nutrition Explaining major food components	Charts Chalkboard Students book	KLB secondary Agriculture form 2 pg 158 Certificate Secondary Agriculture F2 pg 115 Longhorn secondary Agriculture form 2 pg 148-149 Teachers guide pg 83-85 Top mark Agriculture page 85	
	2-3	Livestock Nutrition	Food nutrients Water Carbohydrate fats	By the end of the lesson, the learner should be able to describe the food nutrients describe the feed nutrients explaining the functions of each feed	describing the feed nutrients explaining the functions of each feed	students book samples of feed nutrients	KLB secondary Agriculture form 2 pg 159-161 Certificate Secondary Agriculture F2 pg 115-116,118 Longhorn secondary Agriculture form 2 pg 149-152 Teachers guide pg 81-82 Gateway Agriculture revision paper 2 page 12 Top mark Agriculture page 85-86	

6	1	Livestock production (II) nutrition	Feed nutrients Proteins minerals	By the end of the lesson, the learner should be able to explain the functions of each food describe the food nutrients	explaining functions of each food describing food nutrients	Feed specimen Photographs Farm stores Students book	KLB secondary Agriculture form 2 pg 163-165 Certificate Secondary Agriculture F2 pg 117 Longhorn secondary Agriculture form 2 pg 157 Teachers guide pg 89-92 Gateway Agriculture revision paper 2 page 13 Top mark Agriculture page 86
	2-3	Livestock Production (II) Nutrition	Food nutrients vitamins	By the end of the lesson, the learner should be able to State various types of vitamins Explain the importance of vitamins Describe the food nutrients	Stating various types of vitamins Explaining the importance of vitamins Describing the food nutrients	Food store Photographs of animals with deficiency Feed specimen Students book	KLB secondary Agriculture form 2 pg 163-165 Certificate Secondary Agriculture F2 pg 117 Longhorn secondary Agriculture form 2 pg 157 Teachers guide pg 89-92 Gateway Agriculture revision paper 2 page 13 Top mark Agriculture page 86
7	1	Livestock production (II) nutrition	Foods and foodstuffs roughages	By the end of the lesson, the learner should be able to state the classifications of animals food identify the food stuffs state the characteristics of foodstuffs	Stating the classes of food stuffs Identifying the food stuffs Stating the characteristics of food stuffs	food stuffs food store photographs Students book	KLB secondary Agriculture form 2 pg 169-170 Certificate Secondary Agriculture F2 pg 118-119 Longhorn secondary Agriculture form 2 pg 162-163 Teachers guide pg 89-92 Gateway Agriculture revision paper 2 page 14-15 Top mark Agriculture page 86

	2-3	Livestock production (II) nutrition	Foods and foods stuffs Concentrates Proteins Carbohydrate Mixed succulents	By the end of the lesson, the learner should be able to Identify the food stuffs State their characteristics	Identifying the food stuffs Stating the characteristics of the food stuffs	Food stuffs Students book Food store photographs	KLB secondary Agriculture form 2 pg 171 Certificate Secondary Agriculture F2 pg 117 Longhorn secondary Agriculture form 2 pg 163-164 Teachers guide pg 89-92 Gateway Agriculture revision paper 2 page 15 Top mark Agriculture page 86-87	
8	1	Livestock production (II) nutrition	Concept of rationing Terms used to express food values	By the end of the lesson, the learner should be able to State the terms used to express food values Explain the various terms	Stating the terms used to express food values Explaining the various terms	Charts Students book Chalk board	KLB secondary Agriculture form 2 pg 172-175 Certificate Secondary Agriculture F2 pg 125 Longhorn secondary Agriculture form 2 pg 162-164 Teachers guide pg 89-92 Top mark Agriculture page 87	
	2-3	Livestock production (II) Nutrition	Ratio computation	By the end of the lesson, the learner should be able to Explain the process of ration computation Stating the methods Compute a livestock ration	Stating the methods Explaining the process of ration computation Computing livestock ration	geometric set Students book Charts Tables in the students book	KLB secondary Agriculture form 2 pg 176-179 Certificate Secondary Agriculture F2 pg 126-128 Longhorn secondary Agriculture form 2 pg 166-169 Teachers guide pg 89-92 Gateway Agriculture revision paper 2 page 16-17 Top mark Agriculture page 87-88	
9	1	Livestock production (II)	Digestion in livestock	By the end of the lesson, the learner should be able to	Defining digestion Describing the process of	Chart Diagrams in the students	KLB secondary Agriculture	

		nutrition		Define digestion Describe the process of digestion generally	digestion	book Specimens of digestive systems School farm	form 2 pg 179-182 Certificate Secondary Agriculture F2 pg 120-121 Longhorn secondary Agriculture form 2 pg 173-175 Teachers guide pg 89-92 Top mark Agriculture page 88	
	2-3	Livestock production (II) nutrition	Digestion in non-ruminants (Pigs)	By the end of the lesson, the learner should be able to Describe digestion and digestive system of a pig	Describing digestion and the digestive system of a pig Drawing diagrams	Chart Specimens of digestive systems Diagrams in the students book	KLB secondary Agriculture form 2 pg 182-184 Certificate Secondary Agriculture F2 pg 121-122 Longhorn secondary Agriculture form 2 pg 172-173 Teachers guide pg 89-92	
10	1	Livestock production (II) nutrition	Digestion in poultry	By the end of the lesson, the learner should be able to Describe digestion and digestive system of poultry	Describing digestion and digestive system of poultry Drawing diagrams	Diagrams in the students book Specimen of the digestive system chart	KLB secondary Agriculture form 2 pg 185 Certificate Secondary Agriculture F2 pg 123-124 Longhorn secondary Agriculture form 2 pg 170-172 Teachers guide pg 89-92 Gateway Agriculture revision paper 2 page 18-19 Top mark Agriculture page 90	
	2-3	Livestock production (II) nutrition	Differences and similarities in 60 th ruminant and ruminant digestive systems	By the end of the lesson, the learner should be able to State the differences & similarities in both ruminant and non-ruminant digestive systems	Stating the differences and similarities both in ruminant and non-ruminant digestive system	Diagrams in the students book Specimens of digestive system chart	KLB secondary Agriculture form 2 pg 186-188 Certificate Secondary Agriculture F2 pg 123-124 Longhorn secondary Agriculture form 2 pg 175-176 Teachers guide pg 89-92 Gateway Agriculture revision	

							paper 2 page 13 Top mark Agriculture page 90	
11	1-3	Livestock production (II) nutrition	Appropriate livestock Landling techniques while feeding	By the end of the lesson, the leaner should be able to Handle livestock appropriately while feeding	Handling livestock appropriately	Farm animals Charts Farm structures Students book Diagrams from the students book	KLB secondary Agriculture form 2 pg 129-132 Certificate Secondary Agriculture F2 pg 128-131 Longhorn secondary Agriculture form 2 pg 176-178 Teachers guide pg 89-92	

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END TERM THREE EXAMS

AGRICULTURE SCHEMES OF WORK
FORM THREE 2013
TERM I

REFERENCES:

13. Longhorn Secondary Agriculture Book
14. Golden Tips KCSE Agriculture
15. Certificate Agriculture Book
16. KLB Top Mark Agriculture
17. KLB Secondary Agriculture
18. Teacher's Guide

W K	LS N	TOPIC	SUB-TOPIC	OBJECTIVES	L/ACTIVITIES	L/T AIDS	REFERENCE	REMARKS
1	1	Livestock Production (III) selection	Reproduction and reproductive systems in cattle	By the end of the lesson, the learner should be able to describe reproduction and reproductive systems in cattle	Describing reproduction and reproductive systems in cattle drawing reproductive systems in cattle	charts diagrams in students book farm animals	KLB secondary Agriculture form 3 pg 1-6 Certificate Secondary Agriculture F2 pg 123-124 Longhorn secondary Agriculture form 3 pg 1-5 Teachers guide pg 37-38 Gateway Agriculture revision paper 2 page 21-23 Top mark Agriculture page 91-92	
	2	Livestock production (III) selection and Breeding	Reproduction and reproductive systems in poultry	By the end of the lesson, the learner should be able to Describe reproduction and reproductive systems in poultry	Describing reproduction and reproductive systems in poultry Drawing reproduction system in poultry	Charts Farm animals Diagrams in the students book	KLB secondary Agriculture form 3 pg 6-8 Certificate Secondary Agriculture F2 pg 123-124 Longhorn secondary Agriculture form 3 pg 6-8 Teachers guide pg 37-38 Gateway Agriculture revision paper 2 page 23-24 Top mark Agriculture page 92	
	3-4	Livestock production selection and Breeding	Selection of dairy and beef cattle	By the end of the lesson, the learner should be able to Define selection Describe selection of the breeding of stock in cattle	Defining selection Describing selection of the breeding stock in cattle Drawings in students book	Farm animals Diagrams in the students book charts	KLB secondary Agriculture form 3 pg 8-9 Certificate Secondary Agriculture F2 pg 123-124 Longhorn secondary Agriculture form 3 pg 8-10 Teachers guide pg 38-39	

							Gateway Agriculture revision paper 2 page 24 Top mark Agriculture page 91-92	
2	1	Livestock selection and breeding	Selection of sheep and goats	By the end of the lesson, the learner should be able to Describe selection of the breeding stock	Describing selection of the breeding stock Note taking Asking and answering questions	Farm animals Diagrams in students book charts	KLB secondary Agriculture form 3 pg 8-9 Certificate Secondary Agriculture F2 pg 123-124 Longhorn secondary Agriculture form 3 pg 11-12 Teachers guide pg 37-38	
	2		Selection of pigs and camels	By the end of the lesson, the learner should be able to Describe selection of the breeding stock	Describing the breeding stock Note taking Asking and answering questions	Farm animals Diagrams in the students book	KLB secondary Agriculture form 3 pg 1-6 Certificate Secondary Agriculture F2 pg 123-124 Longhorn secondary Agriculture form 3 pg 1-5 Teachers guide pg 37-38 Gateway Agriculture revision paper 2 page 21-23 Top mark Agriculture page 91-92	
	3-4	Livestock section and breeding	Selection of breeding Methods of selection	By the end of the lesson, the learner should be able to State factors considered when selecting a breeding stock Describe the methods in selection Define breeding Explaining the importance of breeding	Stating factors considered in selection Describing the various methods used Defining breeding	Charts Chalkboard Diagrams on students book Farm animals	KLB secondary Agriculture form 3 pg 11-16 Certificate Secondary Agriculture F2 pg 123-124 Longhorn secondary Agriculture form 3 pg 15-16 Teachers guide pg 38-39 Gateway Agriculture revision paper 2 page 24 Top mark Agriculture page 93	

3	1		Breeding	By the end of the lesson, the learner should be able to Explain the terms used in breeding	Explaining the various terms	Charts Chalkboard Farm animals	KLB secondary Agriculture form 3 pg 16 Longhorn secondary Agriculture form 3 pg 16-19 Teachers guide pg 39-41 Gateway Agriculture revision paper 2 page 24-25 Top mark Agriculture page 93-94
	2	Livestock selection and breeding	Signs of heat in livestock cattle, pigs rabbits	By the end of the lesson, should be able to Explain the process of mating in cattle, pigs & rabbits State signs of heat in cattle, pigs and rabbits	Explaining the process of mating Stating signs of heat in pigs, rabbits and cattle	Farm animals Photographs Students book Farm	KLB secondary Agriculture form 3 pg 16-19 Longhorn secondary Agriculture form 3 pg 19-23 Teachers guide pg 39-41 Gateway Agriculture revision paper 2 page 25 Top mark Agriculture page 94-95
	3		Breeding systems of breeding	By the end of the lesson, the learner should be able to State various systems of breeding Explain reasons for breeding systems Describe various	Stating various systems of breeding Explaining reasons for breeding Describing various breeding systems	Charts Farm animals Diagrams in the students book	KLB secondary Agriculture form 3 pg 16-19 Longhorn secondary Agriculture form 3 pg 19-23 Teachers guide pg 39-41 Gateway Agriculture revision paper 2 page 25 Top mark Agriculture page 94-95
	4	Livestock selection and breeding	Methods of service in livestock Natural mating Artificial	By the end of the lesson, the learner should be able to Identify the various services in livestock Describe the methods of	Identifying the various methods of services Describing the methods of services in livestock	Farm animals A.I technicians Diagrams in the students book	KLB secondary Agriculture form 3 pg 20-23 Longhorn secondary Agriculture form 3 pg 23-30

			insemination Embryo transplant	services in livestock Explain the advantages & disadvantages of the methods	Drawing diagrams Explaining the advantages & disadvantages		Teachers guide pg 41-43	
4	1		Signs of parturition in livestock Cows Sows Does	By the end of the lesson, the learner should be able to State signs of parturition in cows, sows and does	Stating signs of parturitions in cows, sows and does	Coral, photographs A.I Technicians Students book Farm animals	KLB secondary Agriculture form 3 pg 24-25 Longhorn secondary Agriculture form 3 pg 41-43 Teachers guide pg 39-41 Gateway Agriculture revision paper 2 page 26-27 Top mark Agriculture page 96-97	
	2	Livestock production Livestock rearing practices	Routine Livestock rearing practices	By the end of the lesson, the learner should be able to Define a routine Explain the routine practices in livestock rearing State the importance of each of the practice	Defining a routine Explaining the routine practices Stating the importance of each practice	Livestock structures Livestock feeds Animals farm Livestock Student book photographs	KLB secondary Agriculture form 3 pg 27-31 Longhorn secondary Agriculture form 3 pg 33-35 Teachers guide pg 49-51 Gateway Agriculture revision paper 2 page 28-29 Top mark Agriculture page 98	
	3-4	Livestock production (IV)	Parasite and disease control practices	By the end of the lesson, the learner should be able to State various methods of parasite and disease control Describe the various parasite and disease control practices	Stating the various control practices Describing various control practices Carrying out the various control practices	Livestock drugs Livestock tools Photographs Diagrams on the students book Livestock tools Students book	KLB secondary Agriculture form 3 pg 32-36 Longhorn secondary Agriculture form 3 pg 35-39 Teachers guide pg 49-51 Gateway Agriculture revision paper 2 page 25 Top mark Agriculture page 98-99	
5	1	Livestock production (IV)	Breeding practices	By the end of the lesson, the learner should be able	Stating the breeding practices	Livestock drugs Livestock tools	KLB secondary Agriculture form 3 pg 27-29 Longhorn secondary	

		Livestock Rearing		to State the breeding practices Describe the various breeding practices Carry out the various practices	Describing the various breeding practices Carrying out the various practices	Photographs Students book Diagrams on the students book Livestock Livestock farm	Agriculture form 3 pg 49-51 Teachers guide pg 49-51 Gateway Agriculture revision paper 2 page 30-31 Top mark Agriculture page 99	
	2	Livestock Rearing practices	Identification De-breaking Tooth clipping culling	By the end of the lesson, the learner should be able to Describe de-beaking tooth, clipping and culling Carry out these practices	Describing de-beaking, tooth clipping and culling Carrying out the practices Drawing the diagrams showing the practices	Livestock Livestock drugs Livestock tools Students book Photographs Diagrams on the students book	KLB secondary Agriculture form 3 pg 41-48 Longhorn secondary Agriculture form 3 pg 41-44 Teachers guide pg 49-51 Gateway Agriculture revision paper 2 page 25 Top mark Agriculture page 99-100	
	3-4		Dehorning, shearing, castration	By the end of the lesson, the learner should be able to describe dehorning, shearing, castration Carry out these practices	Describing dehorning, shearing castration Carry out these practices	Livestock Livestock drugs Livestock tools Students book Photographs	KLB secondary Agriculture form 3 pg 45-50 Longhorn secondary Agriculture form 3 pg 41-44 Teachers guide pg 49-51 Gateway Agriculture revision paper 2 page 25 Top mark Agriculture page 100	
6	1	Livestock rearing practices	Management of cows during parturition	By the end of the lesson, the learner should be able to Describe the management of a cow parturition	Describing the management of a cow during parturition Drawing diagrams	Cows Photographs Students book Veterinary personnel	KLB secondary Agriculture form 3 pg 53 Longhorn secondary Agriculture form 3 pg 50-54 Teachers guide pg 49-51 Access secondary Agriculture Revision page 170, 295	

							Golden tips agriculture page 277	
	2		Management of sows, nannies, does, ewes	By the end of the lesson, the learner should be able to Describe the management, does & ewes during parturition	Describing the management of sows, nannies, does, ewes & during parturition		KLB secondary Agriculture form 3 pg 53-56 Longhorn secondary Agriculture form 3 pg 54-56 Teachers guide pg 49-51 Gateway Agriculture revision paper 2 page 33-34 Access secondary Agriculture Revision page 170, 295 Golden tips agriculture page 175,295-296	
	3-4	Bee- keeping	Importance Bee colony Sitting the a apiary	By the end of the lesson, the learner should be able to State the importance of bee keeping Describe the importance of bee keeping Describe the bee conolony Explain factors to consider when citing an apiary	Stating the importance of bee keeping Describing the bee colony Explaining factors to consider when citing an apiary	Combs Bee hives Apiary Bee handling tools bees	KLB secondary Agriculture form 3 pg 56-60 Longhorn secondary Agriculture form 3 pg 51-52 Teachers guide pg 49-51 Gateway Agriculture revision paper 2 page 33-34 Access secondary Agriculture Revision page 175-176	
7	1	Bee keeping	Types of bee hive stocking the bee hive Management of bees	By the end of the lesson, the learner should be able to State the various types of bee hives Describe the stocking of bee hive and management	Stating various types of bee hives Describing the stocking of a bee hive and management	Beehives Combs Apiary Bee handling Students book Protective clothing	KLB secondary Agriculture form 3 pg 60-69 Longhorn secondary Agriculture form 3 pg 59-62 Teachers guide pg 51-52 Gateway Agriculture revision paper 2 page 33-34 Access secondary Agriculture Revision page	

							175-176 Golden tips agriculture page 299-300	
	2	Bee keeping	Importance of fish farming Types if fuse kept in farm ponds	By the end of the lesson, the learner should be able to Define fish farming Explain the importance of fish farming Identifying the types of fish kept in the fish pond	Defining fish farming Explaining the importance of fish farming Identifying the types of fish kept in pond Drawing diagrams	Fish nets Fish species Fish ponds Diagrams in the students book Fish food	KLB secondary Agriculture form 3 pg 70-73 Longhorn secondary Agriculture form 3 pg 62-64 Teachers guide pg 51-52 Gateway Agriculture revision paper 2 page 36 Access secondary Agriculture Revision page 175-176 Golden tips agriculture page 301	
	3	Fish Farming	Importance of fish farming Types of fish kept in farm ponds	By the end of the lesson, the learner should be able to Define fish farming Explain the importance of fish farming Identifying the types of fish kept in fish pond	Defining fish farming Explaining the importance of fish farming Identifying the types of fish kept in fish pond Drawing diagrams	Fish nets Fish species Fish pond Diagrams in the students book Fish pond	KLB secondary Agriculture form 3 pg 73-77 Longhorn secondary Agriculture form 3 pg 65-70 Teachers guide pg 52-53 Gateway Agriculture revision paper 2 page 36-37 Access secondary Agriculture Revision page 177 Golden tips agriculture page 301-302	
7	4	Fish Farming	Management Fish farming Harvesting and processing fish	By the end of the lesson, the learner should be able to Describe fish management Explain fish harvesting and processing fish	Describing fish management Explaining fish harvesting and processing	Fish pond Fish species Fish nets Students book	KLB secondary Agriculture form 3 pg 73-79 Longhorn secondary Agriculture form 3 pg 65-70 Teachers guide pg 52-53 Gateway Agriculture revision	

							paper 2 page 36-37 Access secondary Agriculture Revision page 177 Golden tips agriculture page 302-303	
8	1	Livestock Rearing Practices	Appropriate handling of livestock during routine management	By the end of the lesson, the learner should be able to Demonstrate a caring attitude towards livestock	Demonstrating a caring attitude towards livestock Drawing diagrams	Diagrams from the student book Farm animals Photographs Livestock handling tools	KLB secondary Agriculture form 3 pg 79-81 Longhorn secondary Agriculture form 3 pg 70-75 Teachers guide pg 53-54 Gateway Agriculture revision paper 2 page 36-37 Access secondary Agriculture Revision page 296 Golden tips agriculture page 296	
	2	Farm Structures	Farm buildings and structures Citing parts of a building Cite preparation	By the end of the lesson, the learner should be able to State factors considered when citing farm structures Describe parts of a building	Stating factors considered when citing farm structures Describing parts of a building	Farm buildings Diagrams School farm Student's book	KLB secondary Agriculture form 3 pg 83-88 Longhorn secondary Agriculture form 3 pg 77-80 Teachers guide pg 59-60 Gateway Agriculture revision paper 2 page 36-37 Access secondary Agriculture Revision page 235 Golden tips agriculture page 250	
	3-4	Farm Structures	Livestock Structures Crushes	By the end of the lesson, the learner should be able to: Identify materials used in	Identifying materials used in construction of crush Stating the maintenance of a crush	Crush Constructional materials Student's book Photographs	KLB secondary Agriculture form 3 pg 93-94 Longhorn secondary	

				<p>constructions State the maintenance of a crush Explain the uses of a crush</p>	<p>Explaining the various uses of a crush</p>		<p>Agriculture form 3 pg 81-83 Teachers guide pg 59-60 Access secondary Agriculture Revision page 236 Golden tips agriculture page 251-252</p>	
9	1	Farm structures	Livestock Structures- Dips	<p>By the end of the lesson, the learner should be able to: Identify materials used in construction of a dip State the maintenance of a dip Explain the uses of a dip © Education Plus Agencies</p>	<p>Identifying materials used in constructions Stating the maintenance of a dip Explaining the uses of the dip Drawing the structures</p>	<p>Dip construction materials Photographs Diagrams from the students book</p>	<p>KLB secondary Agriculture form 3 pg 95-96 Longhorn secondary Agriculture form 3 pg 83-86 Teachers guide pg 60-63 Gateway Agriculture revision paper 2 page 36-37 Access secondary Agriculture Revision page 236 Golden tips agriculture page 252</p>	
	2	Farm structures	Livestock structures Spray race Dairy shed	<p>By the end of the lesson, the learner should be able to Identify the constructional materials used State the uses of these structures</p>	<p>Identifying materials used in construction Stating the uses of the structure Drawing the structures</p>	<p>Diagrams from the students book Photographs Construction materials Spray race and dairy shed</p>	<p>KLB secondary Agriculture form 3 pg 99-102 Longhorn secondary Agriculture form 3 pg 86-90 Teachers guide pg 60-63 Gateway Agriculture revision paper 2 page 88 Access secondary Agriculture Revision page 236 Golden tips agriculture page 253-254</p>	
	3-4	Farm structures	Livestock structure Calf pens	<p>By the end of the lesson, the learner should be able</p>	<p>Naming the construction materials</p>	<p>Calf pens Poultry houses</p>	<p>KLB secondary Agriculture form 3 pg 194-114,115</p>	

			Poultry houses Rabbits hutches Pig sty's	to Name the construction materials used State the uses of these structures Describe the construction of the materials	Stating the uses of the structures Describing the construction of the structures	Rabbit hutches Pig stys Construction materials Photographs Students book Diagrams on the students book	Longhorn secondary Agriculture form 3 pg 86-90 Teachers guide pg 60-63 Gateway Agriculture revision paper 2 page 88 Golden tips agriculture page 254-257	
10	1	Farm Structures	Livestock structures Fish pond Silo	By the end of the lesson, the learner should be able to Identify the construction materials used Explain the uses of these structures	Identifying the construction materials Explaining the uses of these structures	Photographs Students book Constructional materials Diagrams in the students book	KLB secondary Agriculture form 3 pg 115, 123 Longhorn secondary Agriculture form 3 pg 100-104 Teachers guide pg 60-63 Golden tips agriculture page 250	
	2	Farm structures	Zero grazing unit Bee hive	By the end of the lesson, the learner should be able to Identify construction materials used State the uses of these structures	Identifying the construction materials Stating the uses of these structures	Zero grazing unit Photographs Students book Construction materials beehive	KLB secondary Agriculture form 3 pg 102-104 Longhorn secondary Agriculture form 3 pg 103-106 Teachers guide pg 60-63 Gateway Agriculture revision paper 2 page 88 Access secondary Agriculture Revision page 235 Golden tips agriculture page 259-260	
	3-4	Farm Structures	Farm Stores	By the end of the lesson, the learner should be able to Identifying the construction materials used State the uses of these	Identifying the construction materials Stating the uses of these structures Describing the process of constructing a farm store	Diagrams in the students book Photographs Farm store Construction materials	KLB secondary Agriculture form 3 pg 121-122 Longhorn secondary Agriculture form 3 pg 106-110	

				structures Describe the process of constructing a farm store			Teachers guide pg 64 Gateway Agriculture revision paper 2 page 89 Golden tips agriculture page 260-261	
11	1-2	Farm structures	Fences	By the end of the lesson, the learner should be able to State the types of fences Identify the construction materials used	Stating types of fences Identifying the construction materials used Explaining the uses of these structures Drawing the fences	Fences Construction materials Students book Photographs diagrams	KLB secondary Agriculture form 3 pg 124-132 Longhorn secondary Agriculture form 3 pg 110-117 Teachers guide pg 65	
	3-4	Farm structures	Green Houses	By the end of the lesson, the learner should be able to: State the construction materials used Describe the process of constructing green house Explain the uses of these structures	Stating the construction materials Describing the process of constructing green house Explaining the uses of the structures	Green houses Construction materials Diagrams from the students book Students book photographs	KLB secondary Agriculture form 3 pg 133-139 Longhorn secondary Agriculture form 3 pg 128-121 Teachers guide pg 66 Gateway Agriculture revision paper 2 page 89 Access secondary Agriculture Revision page 235 Golden tips agriculture page 262	

12

TOPICAL REVISION

13-14

END TERM EXAMINATIONS

15

CLOSING

AGRICULTURE SCHEMES OF WORK
FORM THREE 2013
TERM II

REFERENCES:

1. Longhorn Secondary Agriculture Book
2. Golden Tips KCSE Agriculture
3. Certificate Agriculture Book
4. KLB Top Mark Agriculture
5. KLB Secondary Agriculture
6. Teacher's Guide

W K	LS N	TOPIC	SUB-TOPIC	OBJECTIVES	L/ACTIVITIES	L/T AIDS	REFERENCE	REMARKS
1	1	Agricultural	Land tenure types	By the end of the lesson, the	Defining the term land tenure	Charts	KLB secondary Agriculture	

		Economics (III) Land tenure and reforms	Collective tenure systems	learner should be able to Define land tenure State the types of land tenure Describe the collective tenure systems	Stating the types of land tenure Describing the collective systems	Students book Chalk board	form 3 pg 140-141 Longhorn secondary Agriculture form 3 pg 123-125 Teachers guide pg 74 Gateway Agriculture revision paper 2 page 98-99 Access secondary Agriculture Revision page 120 Golden tips agriculture page 125	
	2		Individual Tenure System	By the end of the lesson, the learner should be able to State the types of individual tenure system Describe individual tenure systems State advantages and disadvantages of this tenure system	Stating the individual tenure systems Describing individual tenure system Stating advantages and disadvantages of the system	Title deeds Charts Students book	KLB secondary Agriculture form 3 pg 143-145 Longhorn secondary Agriculture form 3 pg 123-125 Teachers guide pg 74 Gateway Agriculture revision paper 2 page 98-99 Golden tips agriculture page 124	
	3-4	Land tenure and reform	Land Reforms	By the end of the lesson, the learner should be able to Define land reforms Describe the various types of land reforms Explaining the various settlement schemes in Kenya	Defining land reforms Describing various types of land reforms Explaining the various settlement scenes in Kenya	Title deeds Students book Charts Chalk board	KLB secondary Agriculture form 3 pg 148-157 Longhorn secondary Agriculture form 3 pg 127-155 Teachers guide pg 75-76 Gateway Agriculture revision paper 2 page 99 Access secondary Agriculture Revision page 120-121 Golden tips agriculture page	

							125-126	
2	1	Soil and water conservation	Soil Erosion	By the end of the lesson, the learner should be able to Define soil erosion Explain factors that influence soil erosion	Defining soil erosion Explaining factors that influence soil erosion	Excavated areas School farm Photographs Diagrams on the students book	KLB secondary Agriculture form 3 pg 158-160 Longhorn secondary Agriculture form 3 pg 137-138 Teachers guide pg 80 Gateway Agriculture revision paper 2 page 121 Access secondary Agriculture Revision page 120-121 Golden tips agriculture page 126	
	2	Soil and Water Conservation	Soil Erosion	By the end of the lesson, the learner should be able to Explain the various agents of erosion	Explaining various agents	Photographs School farm Excavated areas Students book	Longhorn secondary Agriculture form 3 pg 15-16 Teachers guide pg 38-39 Gateway Agriculture revision paper 2 page 24 Access secondary Agriculture Revision page 80 Golden tips agriculture page 26	
	3-4	Soil and Water Conservation	Soil Erosion	By the end of the lesson, the learner should be able to Describe the various types of soil erosion	Describing the various types of erosion	Photographs Students book School farm Excavated areas Diagrams in the students book	KLB secondary Agriculture form 3 pg 161-167 Longhorn secondary Agriculture form 3 pg 139-141 Teachers guide pg 80 Gateway Agriculture revision paper 2 page 24 Access secondary Agriculture Revision page	

							80-81 Golden tips agriculture page 27	
3	1		River bank erosion	By the end of the lesson, the learner should be able to Define river bank erosion Explain the effects of river bank erosion State the control measures	Defining riverbank erosion Explaining the effects of river Bank erosion Stating control measures	Photographs River bank Diagrams in the students book charts	KLB secondary Agriculture form 3 pg 167-168 Access secondary Agriculture Revision page 87 Golden tips agriculture page 27	
	2		Mass wasting solifluction	By the end of the lesson, the learner should be able to Define mass wasting Explain factors influencing mass wasting Describing effects of mass wasting	Defining mass wasting Explaining factors influencing mass wasting Describing effects of mass wasting	Charts Photographs Diagrams in the students book	KLB secondary Agriculture form 3 pg 168-173 Access secondary Agriculture Revision page 87 Golden tips agriculture page 27	
	3-4	Soil and water conservation	Soil control Measures Biological and cultural control Physical and structural control measures	By the end of the lesson, the learner should be able to Describe the biological, cultural physical and structural control Measures on soil erosion	Describing the biological, cultural, physical and structural measures of controlling soil erosion Drawing diagrams	Mesh wire Poles Quarry chips School farm Photographs Excavated areas Students book Garden tools Diagrams in the students book	KLB secondary Agriculture form 3 pg 173-186 Longhorn secondary Agriculture form 3 pg 142-149 Teachers guide pg 81 Gateway Agriculture revision paper 2 page 122-124 Access secondary Agriculture Revision page 81-83 Golden tips agriculture page 28-30	
4	1-2	Soil and Water Conservation	Water Harvesting	By the end of the lesson, the learner should be able to Name methods used to harvest water Describe water harvesting and conservation techniques Explain the micro catchment	Naming methods used to harvest water Describing water harvesting and conservation Explaining micro catchment Stating their uses	Dams Tanks Reservoirs Wells Photographs School farm Garden tools	KLB secondary Agriculture form 3 pg 187-191 Longhorn secondary Agriculture form 3 pg 149-159 Teachers guide pg 81-82	

				and their uses		Gutters Ponds	Gateway Agriculture revision paper 2 page 124-125 Access secondary Agriculture Revision page 83-85 Golden tips agriculture page 30-31	
	3-4	Weeds and weed control	Weeds Definition Identification classification	By the end of the lesson, the learner should be able to define a weed identify the various weeds classify the weeds in various groups	defining weeds observation identifying the weeds classify the weeds	weed specimen school farm photographs students book diagrams in the students books	KLB secondary Agriculture form 3 pg 192-201 Longhorn secondary Agriculture form 3 pg 161-164 Teachers guide pg 87-88 Gateway Agriculture revision paper 2 page 73-74 Golden tips agriculture page 63-64	
5	1-2	Weeds and weed control	Weeds Identification classification	By the end of the lesson, the learner should be able to identify the various weeds classify the various weeds	identifying the various weeds classifying the various weeds	weed specimen school farm photographs diagrams in the students book	KLB secondary Agriculture form 3 pg 193-200 Longhorn secondary Agriculture form 3 pg 161-164 Teachers guide pg 87-88 Gateway Agriculture revision paper 2 page 73-74 Access secondary agriculture page 89 Golden tips agriculture page 63-64	

	3-4	Weeds and weed	Weeds competitive	By the end of the lesson, the	Identify the various weeds	Weed specimen	KLB secondary Agriculture form 3 pg 200-202	
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		control	abilities of weeds Harmful effects of weeds	learner should be able to Identify the various weeds Classify the various weeds	Classifying the various weeds	School farm Photographs Diagrams in students book	Longhorn secondary Agriculture form 3 pg 159-161 Teachers guide pg 87-88 Gateway Agriculture revision paper 2 page 73-74 Access secondary agriculture page 89-90 Golden tips agriculture page 64-65	
6	1	Weeds and weed control	Weed control mechanical	By the end of the lesson, the learner should be able to Describe mechanical weed control	Describing mechanical weed control	weed specimen school farm photographs diagrams in the students book garden tools	KLB secondary Agriculture form 3 pg 209-210 Longhorn secondary Agriculture form 3 pg 169-170 Teachers guide pg 88-92 Gateway Agriculture revision paper 2 page 76 Golden tips agriculture page 64-65	
	2		Cultural and biological control	By the end of the lesson, the learner should be able to Describe biological and cultural weed control method	Describing the biological and cultural weed control method Note taking Asking and answering questions	Garden tools Students book Photographs School farm Farm specimen	KLB secondary Agriculture form 3 pg 210-211 Longhorn secondary Agriculture form 3 pg 178 Teachers guide pg 93-95 Gateway Agriculture revision paper 2 page 76 Golden tips agriculture page 65	
	3-4		Chemical and legislative weed control methods	By the end of the lesson, the learner should be able to Explain ways in which chemicals kill weeds State the classification of	Explaining ways in which chemicals kill weeds Stating the classifications of herbicides Explaining factors affecting	Garden tools Students book Photographs School farm Weed specimen	KLB secondary Agriculture form 3 pg 203-208 Longhorn secondary Agriculture form 3 pg	

				herbicides Explaining factors affecting selectivity and effectiveness of herbicides Identifying the precautions in using chemicals Stating the advantages and disadvantages of herbicides	selectivity and effectiveness of herbicides Identifying the precautions in using chemicals Stating the advantages and disadvantages of herbicides		170,172-175 Teachers guide pg 88-92 Gateway Agriculture revision paper 2 page 74 Golden tips agriculture page 90 Access secondary Agriculture page 65-66	
7	1	Crop pest and diseases	Crop Pests	By the of the end lesson, the learner should be able to Define a pest Explain harmful effects of crop pests	Defining a pest Explaining the harmful effects of crop pests Asking and answering questions	Students book Specimens of crop pests Crops attacked Pesticides Photographs	KLB secondary Agriculture form 3 pg 213-214 Longhorn secondary Agriculture form 3 pg 177-178 Teachers guide pg 93-95 Gateway Agriculture revision paper 2 page 76	
	2		Crop Pests	By the end of the lesson, the learner should be able to Classify pests based on mode of feeding Classify pests based on crop part attacked	Classifying pests based on mode of feeding Asking and answering questions	Crops attacked specimens of crop pests Photographs of pests Students book	KLB secondary Agriculture form 3 pg 214 Longhorn secondary Agriculture form 3 pg 177-178 Teachers guide pg 93-95 Gateway Agriculture revision paper 2 page 76 Golden tips agriculture page 67 Access secondary Agriculture page 97	
	3-4		Crop Pests	By the end of the lesson, the learner should be able to Classify pest on the basis of stage of growth classification (scientific) Level of damage and place	Classify pests Asking and answering questions Note taking	Crops attacked Specimen of crop pests Photographs of pests Students book	KLB secondary Agriculture form 3 pg 214-215 Longhorn secondary Agriculture form 3 pg 177-178	

				where they are found of habitat			Teachers guide pg 93-95 Gateway Agriculture revision paper 2 page 76 Golden tips agriculture page 67 Access secondary Agriculture page 97	
8	1-2	Crop pests and diseases	Crop pests Identification	By the end of the lesson, the learner should be able to identify common pests describe the various pests and the stage, part of the crop attacked	Identifying common pests Describing the various pests on the various basics Asking and answering questions Note making	Diagrams in the students book Photographs of pests Pesticides Crops attacked Specimens of crop pests Students book	KLB secondary Agriculture form 3 pg 215-226 Longhorn secondary Agriculture form 3 pg 179-184 Teachers guide pg 93-95 Gateway Agriculture revision paper 2 page 77-79 Golden tips agriculture page 67-69 Access secondary Agriculture page 97-98	
	3-4		Crop pests identification	By the end of the lesson, the learner should be able to identify common pests describe the various pests and the stage part of the crop attacked	Identifying common pests Describing the various pests Asking and answering questions Note making	Crops attacked Specimens of crop pests Photographs of pests Pesticides Diagrams in the students book	KLB secondary Agriculture form 3 pg 215-226 Longhorn secondary Agriculture form 3 pg 179-184 Teachers guide pg 93-95 Gateway Agriculture revision paper 2 page 77-79 Golden tips agriculture page 67-69	
9	1	Crop Pests and disease control	Crop pests	By the end of the lesson, the learner should be able to Describe harmful effects of pests Identify pest control	Describing the effects of pests Identifying pests control measure	Students book Specimens of crop pests Crops attacked Pesticides Photography	KLB secondary Agriculture form 3 pg 213-226 Longhorn secondary Agriculture form 3 pg 83-86	

				measures		Pests	Teachers guide pg 60-63 Gateway Agriculture revision paper 2 page 88 Golden tips agriculture page 70-75 Access secondary Agriculture page 97-98	
	2		Crop pests control cultural	By the end of the lesson, the learner should be able to Describe the cultural pest control measures	Describing the cultural pest Control measures Note taking Asking and answering questions	Students book Crops attacked Pesticides Photographs of pests School farm Specimen of crop pests	KLB secondary Agriculture form 3 pg 228-230 Longhorn secondary Agriculture form 3 pg 185-186 Teachers guide pg 63-70 Gateway Agriculture revision paper 2 page 79 Golden tips agriculture page 71-72	
	3	Crop pest and diseases	Crop pests	By the end of the lesson, the learner should be able to Describe the mechanical pest control	Describing mechanical pest control Asking and answering questions Note taking	Students book Specimen of crop pests Crops attacked Photographs of pests	KLB secondary Agriculture form 3 pg 226-227 Longhorn secondary Agriculture form 3 pg 186-188 Teachers guide pg 95 Gateway Agriculture revision paper 2 page 80 Golden tips agriculture page 7	
	4		Crop pests	By the end of the lesson, the learner should be able to Describe the biological pest control	Describing biological pest control Asking and answering questions Note taking Explanations	Photographs of pests Crops attacked Specimens of crop pests	KLB secondary Agriculture form 3 pg 232 Longhorn secondary Agriculture form 3 pg 186-188 Teachers guide pg 95	

							Gateway Agriculture revision paper 2 page 88 Golden tips agriculture page 73-74	
10	1		Crop pests	By the end of the lesson, the learner should be able to Describe chemical methods of pest control	Describing the chemical methods of pest control Note taking Asking and answering questions	Photographs of pests Crops attacked Specimens of crop pests	KLB secondary Agriculture form 3 pg 230-232 Longhorn secondary Agriculture form 3 pg 188-190 Teachers guide pg 95 Gateway Agriculture revision paper 2 page 88	
	2	Crop pests and disease	Crop diseases	By the end of the lesson, the learner should be able to Define a plant disease Classify plant diseases Explain harmful effects of crop diseases	Defining a plant diseases Classifying plant diseases Explaining the harmful effects of crop diseases	Students book Specimens of diseases crops Photographs Fungicides	KLB secondary Agriculture form 3 pg 233-236 Longhorn secondary Agriculture form 3 pg 190-191 Teachers guide pg 96-99 Gateway Agriculture revision paper 2 page 88	
	3-4	Crop pest and diseases	Crop diseases	By the end of the lesson, the learner should be able to Identify common crop diseases	Identifying common crop diseases Asking questions and answering Note taking	Students book Specimens of diseased crops Photographs Fungicides	KLB secondary Agriculture form 3 pg 233-241 Longhorn secondary Agriculture form 3 pg 191-197 Teachers guide pg 96-99 Gateway Agriculture revision paper 2 page 82-84	
11	1-2		Crop diseases	By the end of the lesson, the learner should be able to classify plant diseases	Classifying plant Diseases Asking and answering questions Explanations	Specimen of diseased crops Photographs Fungicides Students book Diagrams in the students books	KLB secondary Agriculture form 3 pg 233-238 Longhorn secondary Agriculture form 3 pg 191-197	

							Teachers guide pg 96-99 Gateway Agriculture revision paper 2 page 82-84 Golden tips agriculture page 74-77 Access secondary Agriculture page 97-98	
	3-4		Crop diseases	By the end of the lesson, the learner should be able to Describe the disease control crops Carry out crop diseases control	Describing the disease control in crops Carrying out crop disease control	Students book Specimen of disease crops Photographs Fungicides Diagrams in the students book	KLB secondary Agriculture form 3 pg 239-240 Longhorn secondary Agriculture form 3 pg 182-184 Teachers guide pg 95 Gateway Agriculture revision paper 2 page 84 Golden tips agriculture page 77-78 Access secondary Agriculture page 104-106	
12		TOPICAL REVISION						
13		END OF TERM EXAMS						
14								

AGRICULTURE SCHEMES OF WORK
FORM THREE 2013
TERM III

REFERENCES:

1. Longhorn Secondary Agriculture Book
2. Golden Tips KCSE Agriculture
3. Certificate Agriculture Book
4. KLB Top Mark Agriculture
5. KLB Secondary Agriculture
6. Teacher's Guide

W K	LS N	TOPIC	SUB-TOPIC	OBJECTIVES	L/ACTIVITIES	L/T AIDS	REFERENCE	REMARKS
1	1	Crop Production (VI)	Production of maize	By the end of the lesson, the learner should be able to Name hybrids, composites of maize State the ecological requirement of maize Describe, field establishments, management and harvesting maize & marketing	Naming hybrids composites Stating the ecological requirements Describing management harvesting and field establishment Note making Asking and answering questions	Garden tools Samples of maize School farms Student book	KLB secondary Agriculture form 3 pg 242-250 Longhorn secondary Agriculture form 3 pg 200-202 Teachers guide pg 101-102 Gateway Agriculture revision paper 2 page 52,54,55 Golden tips agriculture page 57-58	
	2		Production of millet	By the end of the lesson, the learner should be able to Name hybrids, composites and cutting of millet State the ecological requirement of millet Describe field establishment, management, harvesting and marketing	Stating the ecological requirements Describing field establishment management harvesting and marketing Note making Asking and answering questions Naming the hybrids, composites cultwas	Garden tools School farm Sample of millet Diagrams on the students book charts	KLB secondary Agriculture form 3 pg 250-255 Longhorn secondary Agriculture form 3 pg 201-214 Teachers guide pg 101-102 Gateway Agriculture revision paper 2 page 56 Golden tips agriculture page 82-84 Access secondary Agriculture page 58	
	3		Production of sorghum	By the end of the lesson, the learner should be able to Name composites, hybrids, cultivar of sorghum State the ecological requirements of sorghum Describe the field establishment, management marketing and harvesting	Naming the hybrids, composite cultivars Stating the ecological requirement of sorghum Describing the field establishment management, harvesting and marketing Asking and answering questions	Charts samples of sorghum Garden tools Diagrams on the students book	KLB secondary Agriculture form 3 pg 250-255 Longhorn secondary Agriculture form 3 pg 201-204 Teachers guide pg 101-102 Gateway Agriculture revision paper 2 page 56 Golden tips agriculture page 84-85	

							Access secondary Agriculture page 59-60	
	4	Production Crop	Production of Beans	By the end of the lesson, the learner should be able to State the varieties of beans grown Describe the varieties of beans grown Explaining the ecological requirements of maize Describe field establishment management and harvesting marketing	Stating the varieties Explaining the ecological requirements of maize Describing field establishment, harvesting and marketing Note making Asking and answering questions	School farm Garden tools Seed samples Students book	KLB secondary Agriculture form 3 pg 250-255 Longhorn secondary Agriculture form 3 pg 214-215 Teachers guide pg 101-102 Gateway Agriculture revision paper 2 page 56-58 Golden tips agriculture page 85-87 Access secondary Agriculture page 59-60	
2	1-2	Crop production	Gross Margin of Crop enterprises	By the end of the lesson, the learner should be able to Compare and contrast the gross margin of maize/millet, sorghum and beans	Comparing and contrasting gross margins of maize, millet, sorghum and beans	Charts Receipts Tables Chair Farm records Students book	KLB secondary Agriculture form 3 pg 243-268 Longhorn secondary Agriculture form 3 pg 218-219 Teachers guide pg 101-102 Gateway Agriculture revision paper 2 page 56-58 Golden tips agriculture page 85-87,79-90 Access secondary Agriculture page 57-63	
	3-4	Crop production	Harvesting of cotton, sugarcane, pyrethrum	By the end of the lesson, the learner should be able to describe the harvesting of cotton, pyrethrum and sugarcane	describing the harvesting of cotton, pyrethrum and sugarcane	photographs diagrams in the students book school farm farm harvesting tools	KLB secondary Agriculture form 3 pg 263-264 Longhorn secondary Agriculture form 3 pg 221-224 Teachers guide pg 102-103 Gateway Agriculture revision paper 2 page 58-59 Golden tips agriculture page 85-87,79-90	

							Access secondary Agriculture page 57-63	
3	1	Crop Production	Harvesting of cotton, sugarcane, pyrethrum	By the end of the lesson, the learner should be able to Describe the harvesting of cotton, pyrethrum and sugar cane	Describing the harvesting of cotton, pyrethrum and sugarcane	Photographs Diagrams in the students book School farm Farm harvesting tools	KLB secondary Agriculture form 3 pg 264-266 Longhorn secondary Agriculture form 3 pg 224-226 Teachers guide pg 103-105 Gateway Agriculture revision paper 2 page 59	
	2	Crop production	Harvesting of tea and coffee	By the end of the lesson, the learner should be able to Describe the harvesting of tea and coffee	Describing the harvesting of tea and coffee	Diagrams in the students book Photographs Harvesting tools Charts	KLB secondary Agriculture form 3 pg 226-268 Longhorn secondary Agriculture form 3 pg 226-228 Teachers guide pg 103-105 Gateway Agriculture revision paper 2 page 59-60 Golden tips agriculture page 88-89	
	3-4	Crops forage	Pastures classifications	By the end of the lesson, the learner should be able to Define pastures and forage crops Classify pastures	Defining pastures and forage crops Classifying pastures & forage crops	Students book Specimens of pastures Photographs of forage crops charts	KLB secondary Agriculture form 3 pg 269-272 Longhorn secondary Agriculture form 3 pg 230-234 Teachers guide pg 106-107 Gateway Agriculture revision paper 2 page 59-60 Golden tips agriculture page 108 Access secondary revision page 72	
4	1		Pastures establishment management	By the end of the lesson, the learner should be able to Describe pasture establishment	Describing pasture establishment Describing pasture management note taking	Specimens of pastures Photographs of forage crops Garden tools	KLB secondary Agriculture form 3 pg 272-276 Longhorn secondary Agriculture form 3 pg 234-236	

				Describe pasture management			Teachers guide pg 106-107 Golden tips agriculture page 109 Access secondary revision page 72	
	2		Pastures utilizations	By the end of the lesson, the learner should be able to Describe various methods of pasture utilization	Describing various methods of pastures Utilization Asking and answering questions	Specimens of pastures Photographs of forage crops Students book	KLB secondary Agriculture form 3 pg 277-280 Longhorn secondary Agriculture form 3 pg 326-340 Teachers guide pg 107 Gateway Agriculture revision paper 2 page 59-60 Golden tips agriculture page 109	
	3	Forage Crops	Grazing methods	By the end of the lesson, the learner should be able to Explain the two grazing methods State the advantages and disadvantages of each	Explaining the two grazing methods Stating the advantages and disadvantages of each	Diagrams in the students book Photographs charts	KLB secondary Agriculture form 3 pg 280-283 Gateway Agriculture revision paper 2 page 59-60 Access secondary agriculture page 73-74 Golden tips agriculture page 110-111	
	4		Folder crops Napier grass	By the end of the lesson, the learner should be able to State the ecological requirements of Napier grass Describe the field establishment, management and utilization	Describing the field production of Napier grass	Samples of folder crop School farm Photographs Charts Students book	KLB secondary Agriculture form 3 pg 283-287 Longhorn secondary Agriculture form 3 pg 241-242 Teachers guide pg 107 Gateway Agriculture revision paper 2 page 88 Access secondary revision page 94	
5	1	Forage crops	Sorghum Guatemala grass	By the end of the lesson, the learner should be able to	Describing the field production of sorghum and	Students book Specimens of fodder crops	KLB secondary Agriculture form 3 pg 269-272	

				Describe the production of Guatemala grass under ecological requirements, establishment, management and utilization Describe the production of sorghum under ecological requirements establishment, management and utilization	Guatemala grass	Photographs of forage crops School farm	Longhorn secondary Agriculture form 3 pg 242-244 Teachers guide pg 108 Gateway Agriculture revision paper 2 page 89	
	2		Kales Edible Canaa	By the end of the lesson, the learner should be able to describe the production of kales under ecological requirements	Explanations Note taking	School farm Photographs of fodder Specimen of fodder crops	KLB secondary Agriculture form 3 pg 291-292 Longhorn secondary Agriculture form 3 pg 244-245 Teachers guide pg 108 Gateway Agriculture revision paper 2 page 89-90 Golden tips agriculture page 108 Access secondary revision page 75-76	
	3-4		Fodder crops Lucerne Kenya white clover	By the of the end of the lesson, the learner should be able to Describe the production of Lucerne under ecological requirements, establishment and utilization Describe the production of Kenya white clover under ecological, requirement establishment, management and utilization	Describing the production of Lucerne, Kenya white clover Note making Asking and answering questions	Students book Specimens of Fodder crops Photographs of Forage crops	KLB secondary Agriculture form 3 pg 269-272 Longhorn secondary Agriculture form 3 pg 230-234 Teachers guide pg 106-107 Gateway Agriculture revision paper 2 page 59-60 Golden tips agriculture page 108 Access secondary revision page 72	
6	1	Forage Crops	Fodder crops Disodium Marigold	By the end of the lesson, the learner should be able to Describe the production of disodium under ecological	Describing the field production of disodium and marigold	Students book Specimens of fodder crops Photographs of fodder crops	KLB secondary Agriculture form 3 pg 295-297 Longhorn secondary Agriculture form 3 pg 247-248	

				requirements establishment, management and utilization Describe the production of marigold under ecological requirements and utilization		School farm	Teachers guide pg 108 Golden tips agriculture page 112 Access secondary revision page 77	
	2	Forage Crops	Agroforestry	By the end of the lesson, the learner should be able to Describe agroforestry under ecological requirement, management and utilization	Describing agro forestry tree/bushes Asking and answering questions Note making	Student's book Specimens of fodder crops Photographs of forage crops School farm	KLB secondary Agriculture form 3 pg 297-299 Longhorn secondary Agriculture form 3 pg 248-249 Teachers guide pg 108 Golden tips agriculture page 86,99	
	3-4		Forage Conservation	By the end of the lesson, the learner should be able to Define lay making Describe silage making Describe standing lay	Defining lay making Describing the making of lay silage and standing lay Asking and answering questions Drawing diagrams	Tools used School farm Specimens of lay Silage School farm Diagrams in the students book	Longhorn secondary Agriculture form 3 pg 250-253 Teachers guide pg 114-116 Gateway Agriculture revision paper 2 page 66-67 Golden tips agriculture page 112-113	
7	1	Health Livestock Diseases (III)	Terms used in livestock diseases Protozoan diseases E.C.F (East Coast Fever)	By the end of the lesson, the learner should be able to Define terms used in livestock diseases Describe cause symptoms and control	Defining terms Describing the East Coast Fever Asking and answering questions Note making	School farms Photographs of animals with the disease Diagrams in the students book Cattle dip	KLB secondary Agriculture form 3 pg 308-312 Longhorn secondary Agriculture form 3 pg 114-116 Teachers guide pg 106-107 Gateway Agriculture revision paper 2 page 66-67	

	2		Anaplasmosis	By the end of the lesson, the learner should be able to Describe the cause, symptoms and control of anaplasmosis	Describing anaplasmosis	School farm Photograph of animal with the disease Diagrams in the students book Students book	KLB secondary Agriculture form 3 pg 312 Longhorn secondary Agriculture form 3 pg 256-257 Teachers guide pg 114-116 Gateway Agriculture revision paper 2 page 66-67 Golden tips agriculture page 316 Access secondary revision page 204	
	3	Livestock diseases	Protozoan diseases Coccidiosis	By the end of the lesson, the learner should be able to Describe cause, symptoms and control of coccidiosis	Describing coccidiosis Note making Asking and answering questions	Photographs of animals with the disease School farm Diagrams in the students book	KLB secondary Agriculture form 3 pg 312-313 Longhorn secondary Agriculture form 3 pg 257-258 Teachers guide pg 114-116 Gateway Agriculture revision paper 2 page 66-67 Golden tips agriculture page 316 Access secondary revision page 204	
	4		Trypanosomiasis	By the end of the lesson, the learner should be able to Describe cause, symptoms and control of Trypanosomiasis	Describing trypanosomiasis Note taking Asking and answering questions	Photographs of animals with the disease School farm Diagrams in the students book	KLB secondary Agriculture form 3 pg 314 Longhorn secondary Agriculture form 3 pg 257-258 Teachers guide pg 114-116 Gateway Agriculture revision paper 2 page 66-67 Golden tips agriculture page 317 Access secondary revision page 204-205	

8	1		Bacteria diseases Fowl typhoid	By the end of the lesson, the learner should be able to Describe cause, symptoms and control of fowl typhoid	Describing fowl typhoid Note making Answering and asking questions	Farm Photographs of the affected animals Diagrams in the students books School farm	KLB secondary Agriculture form 3 pg 317-318 Longhorn secondary Agriculture form 3 pg 259-260 Teachers guide pg 116-117 Gateway Agriculture revision paper 2 page 67-71
	2		Foot rot	By the end of the lesson, the learner should be able to Describe cause, symptoms and control of foot rot	Describing foot rot Disease Note making Asking and answering questions	School farm Students book Photographs of animal affected Diagrams in the students book	KLB secondary Agriculture form 3 pg 318-319 Longhorn secondary Agriculture form 3 pg 260-261 Teachers guide pg 116-117 Gateway Agriculture revision paper 2 page 67-71 Access secondary revision page 205-206
	3	Livestock Health (III) diseases	Bacterial diseases Contagious abortion	By the end of the lesson, the learner should be able to Describe the causes, symptoms and control of contagious abortion	Describing contagious abortion Note making	Photographs of affected students book Farm (Livestock) School farm Diagrams in the students book	KLB secondary Agriculture form 3 pg 319-320 Longhorn secondary Agriculture form 3 pg 261-262 Teachers guide pg 116-117 Gateway Agriculture revision paper 2 page 67-71 Access secondary revision page 206
	4		scours	By the end of the lesson, the learner should be able to Describe the causes, symptoms and the control of scours	Describing scours Note taking Asking and answering questions	Photographs of animals with the disease Students book Farm (Livestock) Diagrams in the students book	KLB secondary Agriculture form 3 pg 320-321 Longhorn secondary Agriculture form 3 pg 261-262 Teachers guide pg 116-117 Gateway Agriculture revision

							paper 2 page 314 Access secondary revision page 206-207	
9	1		Bacterial Black quarter Mastitis	By the end of the lesson, the learner should be able to Describe the cause, symptoms and control of mastitis Describe the cause, symptoms and control of black quarter	Describing the mastitis Describing the black quarter Note making drawings	school farm diagrams in the students book Photographs of affected animals Students book	KLB secondary Agriculture form 3 pg 321-322,315-317 Longhorn secondary Agriculture form 3 pg 263-264 Teachers guide pg 116-117 Golden tips agriculture page 314 Access secondary revision page 207	
	2		Anthrax Pneumonia	By the end of the lesson, the learner should be able to Describe cause, symptoms and control of anthrax Describe cause, symptoms and control of pneumonia	Describing the Anthrax Describing the pneumonia Asking and answering questions	Photographs of animal with the disease School farm Livestock farm Diagrams on the students books	KLB secondary Agriculture form 3 pg 312 Longhorn secondary Agriculture form 3 pg 256-257 Teachers guide pg 116-117 Gateway Agriculture revision paper 2 page 67-71 Golden tips agriculture page 314 Access secondary revision page 208-209	
	3-4	Livestock Diseases	Viral Diseases Foot & Mouth Rinderpest	By the end of the lesson, the learner should be able to Describe cause, symptom and control of foot and mouth Describe cause, symptom and control of Rinderpest	Describing foot and mouth and Rinderpest Asking and answering questions Note making	Photographs of the animal with the disease Students book Chalk board School farm Livestock farm Diagrams in the students book Charts	KLB secondary Agriculture form 3 pg 325-326 Longhorn secondary Agriculture form 3 pg 267-269 Teachers guide pg 116-117 Gateway Agriculture revision paper 2 page 71-74 Access secondary revision page 209-210	

10	1		New castle	By the end of the lesson, the learner should be able to Describe cause, symptoms and control a new castle	Describing new castle Asking and answering questions	Photographs of animal with the disease School farm Livestock farm Diagrams in the students book	KLB secondary Agriculture form 3 pg 326-327 Longhorn secondary Agriculture form 3 pg 269-270 Teachers guide pg 117-118 Gateway Agriculture revision paper 2 page 71-74 Golden tips agriculture page 316 Access secondary revision page 210
	2		Fowl Pox	By the end of the lesson, the learner should be able to Describe cause, symptoms and control of fowl pox	Describing fowl pox disease Asking and answering questions	Livestock farm School farms Students book Photographs of the affected animal	KLB secondary Agriculture form 3 pg 327-329 Longhorn secondary Agriculture form 3 pg 269-270 Teachers guide pg 117-118 Golden tips agriculture page 315 Access secondary revision page 211
	3		Gumboro	By the end of the lesson, the learner should be able to Describe cause, symptoms and control of Gumboro	Describing Gumboro Asking and answering questions Note making	Photograph of affected animal Livestock farm School farm Students book	KLB secondary Agriculture form 3 pg 329 Longhorn secondary Agriculture form 3 pg 271-272 Teachers guide pg 117-118 Golden tips agriculture page 315 Access secondary revision page 211
	4	Livestock Diseases	African Swine Fever	By the end of the lesson, the learner should be able to Describe cause, symptom and control of African	Describing African Swine Fever Note taking Asking and answering	Photograph of animals with the disease Diagrams in the students book	KLB secondary Agriculture form 3 pg 330-332 Longhorn secondary Agriculture form 3 pg 272-273

				Swine Fever	questions	School farm Livestock farm	Teachers guide pg 118-119 Gateway Agriculture revision paper 2 page 66-67 Golden tips agriculture page 317 Access secondary revision page 212
11	1		Nutritional disorders Milk fever	By the end of the lesson, the learner should be able to Describe causes, symptoms and control, treatment of milk fever	Describing milk fever Note making Asking and answering questions	Photographs of animals with the disease Diagrams in the students book School farm Livestock farm	KLB secondary Agriculture form 3 pg 330-332 Longhorn secondary Agriculture form 3 pg 272-273 Teachers guide pg 118-119 Gateway Agriculture revision paper 2 page 66-67 Golden tips agriculture page 317 Access secondary revision page 212
	2		Bloat	By the end of the lesson, the learner should be able to Describe the cause, symptom and the control of bloat	Describing bloat diseases Drawing the process of control using surgical means Asking and answering questions	Troca and canular Photographs of the animals with the disease Diagrams in the students book School farm	KLB secondary Agriculture form 3 pg 332-333 Longhorn secondary Agriculture form 3 pg 272-273 Teachers guide pg 118-119 Gateway Agriculture revision paper 2 page 66-67 Golden tips agriculture page 317 Access secondary revision page 212
12	EXAMINATION						

AGRICULTURE SCHEMES OF WORK
FORM FOUR 2013
TERM I

REFERENCES:

19. Longhorn Secondary Agriculture Book
20. Golden Tips KCSE Agriculture
21. Certificate Agriculture Book
22. KLB Top Mark Agriculture

23. KLB Secondary Agriculture

24. Teacher's Guide

W K	LS N	TOPIC	SUB-TOPIC	OBJECTIVES	L/ACTIVITIES	L/T AIDS	REFERENCE	REMARKS
1	1	Livestock production (V) poultry	Parts of an egg	By the end of the lesson, the learner should be able to Identify the various parts of an egg Explain the functions of each part of an egg	Identifying the parts of an egg Explaining the functions of each part of an egg Note making Illustrations Asking and answering questions	Text books Labeled diagram of internal structure of an egg Boiled egg	KLB secondary Agriculture form 4 pg 1-3 Longhorn secondary Agriculture form 4 pg 1-2 Teachers guide pg 114-116 Gateway Agriculture revision paper 2 page 39 Golden tips agriculture page 303-304	
	2	Livestock production (V) poultry	Natural incubation	By the end of the lesson, the learner should be able to Describe natural incubation State the advantages and disadvantages of natural incubation	Describing natural incubation Stating the advantages and disadvantages of natural incubation Illustration Note making Asking and answering questions	Text books A diagram illustrating natural incubation An egg Realic of nesting box	KLB secondary Agriculture form 4 pg 1-3 Longhorn secondary Agriculture form 4 pg 1-2 Teachers guide pg 114-116 Gateway Agriculture revision paper 2 page 39 Golden tips agriculture page 303-304	
	3-4	Livestock production (V) Poultry	Artificial incubation	By the end of the lesson, the learner should be able to Outline the conditions necessary for artificial incubation Describe the management of an incubator State the advantages and disadvantages of artificial incubation	Outline the conditions necessary for artificial incubation Description Stating the advantages and disadvantages of artificial incubation Illustration Note making Asking and answering questions	Text books Diagrams illustrating the structure of an artificial incubator Realic of an artificial incubator An egg	KLB secondary Agriculture form 4 pg 7-9 Longhorn secondary Agriculture form 4 pg 5-6 Teachers guide pg 114-116 Gateway Agriculture revision paper 2 page 411 Golden tips agriculture page 305	
2	1	Livestock Production (V)	Natural Brooding	By the end of the lesson, the learner should be able to	Defining and describing natural brooding	text books diagram of broody hen	KLB secondary Agriculture form 4 pg 9	

		poultry		Define the term brooding Describe natural brooding	Note making Asking and answering questions illustration	Realia of a broody hen samples of chicken variety	Longhorn secondary Agriculture form 4 pg 7 Teachers guide pg 114-116 Gateway Agriculture revision paper 2 page 41-42 Golden tips agriculture page 305-306	
	2	Livestock Production (V) Poultry	Artificial Brooding	By the end of the lesson, the learner should be able to Explain artificial brooding Identify the requirements in an artificial brooder	Explanation of artificial brooding Identification of the artificial brooding requirements Note making Illustration Asking and answering questions	Text books Diagrams of a brooder Realia of a brooder in a chicken	KLB secondary Agriculture form 4 pg 10-13 Longhorn secondary Agriculture form 4 pg 8-10 Gateway Agriculture revision paper 2 page 42 Golden tips agriculture page 306	
	3 and 4	Livestock Production (V) Poultry	Rearing systems Free range Fold system	By the end of the lesson, the learner should be able to Describe free range on fold system Outline the requirements of free range systems State the disadvantages and advantages of free range and fold system	Describing free range and fold system Outline the requirements of free range Stating the advantages and disadvantages of free range and fold Asking and answering questions	Text books Poultry Farm Sample of chicken feed Photographs	KLB secondary Agriculture form 4 pg 14-15 Longhorn secondary Agriculture form 4 pg 11-13 Gateway Agriculture revision paper 2 page 43 Golden tips agriculture page 306	
3	1	Livestock Production (V) Poultry	Rearing systems Deep litter system Battery cage system	By the end of the lesson, the learner should be able to Outline the requirements in deep litter system State the advantages and disadvantages of the deep litter and battery cage system	Outlining the requirements of deep litter Stating the advantages and disadvantages of deep litter on battery cage system Note making Illustration Asking and answering questions	Test books School poultry farm Sample of chicken feed photographs	KLB secondary Agriculture form 4 pg 18-21 Longhorn secondary Agriculture form 4 pg 12-13 Gateway Agriculture revision paper 2 page 45	
	2	Livestock production (V) poultry	Stress in chicken vices in chicken.	By the end of the lesson, the learner should be able to Define the term stress	Identifying the causes of stress in chicken Stating the control measures	Text books Poultry farm photographs	KLB secondary Agriculture form 4 pg 16-24 Longhorn secondary	

				Identify the causes of stress in chicken State the control measures of stress in chicken Identify the kinds of vices in chicken State the control measures of vices	of stress in chicken Identify the vices on chicken and control measures Illustration Note making Asking and answering questions		Agriculture form 4 pg 12-20 Gateway Agriculture revision paper 2 page 45 Golden tips K.C.S.E agriculture page 307	
	3	Livestock Production V Poultry	Marketing of poultry products Eggs Chicken meat	By the end of the lesson, the learner should be able to Describe the marketing of eggs Describe the marketing of chicken meat	Describing the marketing of eggs Describing the marketing of chicken meat Note making Illustration Asking and answering question	Text books Eggs Poultry farm store	KLB secondary Agriculture form 4 pg 24-25 Longhorn secondary Agriculture form 4 pg 21-23 Gateway Agriculture revision paper 2 page 46 Golden tips K.C.S.E agriculture page 307	
	4	Livestock production VI (Cattle)	Raising of the young stock	By the end of the lesson, the learner should be able to Describe the feeding of a new born calf Describe the preparation of artificial colostrums State the importance of colostrums	Describing the feeding of a new calf Describe the preparation of artificial colostrums State the importance of colostrums Illustrations Note making Asking and answering of questions	Text books Dairy farm Calf Sample of artificial colostrums	KLB secondary Agriculture form 4 pg 23-24 Longhorn secondary Agriculture form 4 pg 20-21 Gateway Agriculture revision paper 2 page 45 Golden tips K.C.S.E agriculture page 307	
4	1	Livestock Production VI (Cattle)	Methods of calf rearing	By the end of the lesson, the learner should be able to Describe the natural and artificial methods of feeding a calf State the advantages and disadvantages of both natural and artificial rearing Discuss the meaning of calves	Describing the methods of rearing Stating the advantages and disadvantages of the methods of rearing Discuss weaning of calves Illustrations Note making Asking and answering of questions	Text books Dairy farm Calf Sample of artificial colostrum	KLB secondary Agriculture form 4 pg 29-32 Longhorn secondary Agriculture form 4 pg 26-32 Gateway Agriculture revision paper 2 page 48 Golden tips K.C.S.E agriculture page 308	
	2	Livestock production VI	Calf housing	By the end of the lesson, the learner should be able to	Identifying the types of calf pens	Text books Dairy farm	KLB secondary Agriculture form 4 pg 32-34 Longhorn secondary	

		(Cattle)		Identify the types of calf pens Outline the requirements of calf pens	Outlining the requirements of calf pens Illustration Note making Asking and answering questions	Calf pen Diagrams and photos of calf pens	Agriculture form 4 pg 30-32 Gateway Agriculture revision paper 2 page 48 Golden tips K.C.S.E agriculture page 308-309 Top mark series Revision Agriculture pg 124	
	3	Livestock production VI (Cattle)	Routine management practices	By the end of the lesson, the learner should be able to Describe the various routine practices in managing a calf © Education Plus Agencies	Describing the routine management practices Illustration Note making Asking and answering questions	Text books Dairy farm Realize on some tools for calf managements	KLB secondary Agriculture form 4 pg 34-36 Longhorn secondary Agriculture form 4 pg 30-32 Gateway Agriculture revision paper 2 page 49 Golden tips K.C.S.E agriculture page 308-309	
	4	Livestock Production VI (Poultry)	Milk and milking Factors affecting milk composition Milk secreting and let down	By the end of the lesson, the learner should be able to explain the factors that affect milk composition Illustrate milk secretion and milk let down	Explaining factors that affect milk composition Illustrate milk secretion and milk let down	Text books Milk sample Diagram illustrating the udder Milking equipment	KLB secondary Agriculture form 4 pg 36-40 Longhorn secondary Agriculture form 4 pg 32-38 Golden tips K.C.S.E agriculture page 309-310 Top mark series Revision Agriculture page 124-126	
5	1	Livestock production VI (Poultry)	Milk and milking Clear milk production Dry cow therapy	By the end of the lesson, the learner should be able to Describe clean milk production Describe the milking procedure Explain dry low therapy	Describing clean milk production Describing the milking procedure Explaining dry low therapy Illustration Note making Asking and answering question	Text books Milking equipment Dairy farm cow	KLB secondary Agriculture form 4 pg 40-46 Longhorn secondary Agriculture form 4 pg 32-38 Top mark series Agriculture Revision Pg 120	
	2	Livestock production VI (Cattle)	Marketing of milk and beef cattle	By the end of the lesson, the learner should be able to Discuss the marketing of	Discussing the marketing of milk and beef Illustration	Students text book Milk products Photographs	KLB secondary Agriculture form 4 pg 47-48 Longhorn secondary Agriculture form 4 pg 38-41	

				milk Discuss the marketing of Beef	Note making Asking and answering questions		Golden tips K.C.S.E agriculture page 3- 10	
	3	Farm power and machinery	Sources of power in the farm Human power Animal power	By the end of the lesson, the learner should be able to Describe animal power Describe human power Stating the advantages and disadvantages of animal power	Describing human and animal power Illustration Note making Asking and answering questions Stating the advantages and disadvantages of animal power	Text books Photo of farm workers An agricultural farm	KLB secondary Agriculture form 4 pg 50-51 Longhorn secondary Agriculture form 4 pg 42-45 Gateway Agriculture revision paper 2 page 48 Top Mark Series Agriculture Revision pg 139	
	4	Farm power and machinery	Sources of power in the farm Wing power Water power	By the end of the lesson, the learner should be able to Describe wind power Describe water power	Describing wind and water power Illustration Note making Asking and answering questions	Text books Diagrams of wind mill	KLB secondary Agriculture form 4 pg 50-51 Longhorn secondary Agriculture form 4 pg 42-45 Gateway Agriculture revision paper 2 page 77 Top Mark Series Agriculture Revision pg 139 Golden tips K.C.S.E agriculture page 308	
6	1	Farm power and machinery	Sources of power in the farm biogas	By the end of the lesson, the learner should be able to describe biogas wood and charcoal fuel state the advantages of	describing biogas wood and fuel stating the advantages of biogas, charcoal and wood	text books wood and charcoal biogas plant photos	KLB secondary Agriculture form 4 pg 52-54 Longhorn secondary Agriculture form 4 pg 46-48	

				biogas charcoal and wood fuel	fuel	diagram of biogas digester	Golden tips K.C.S.E agriculture page 234-235	
	2	Farm power and machinery	Sources if power in the farm Fossil fuels Hydro-power Geothermal power	By the end of the lesson, the learner should be able to Describe fossils fuels Describe fossil fuels Describe hydro-power Describe geothermal power	Describing fossils fuels and hydro-electric power Illustrations Note making Asking and answering questions	Text books Photos of a geothermal station	Longhorn secondary Agriculture form 4 pg 46-48 Gateway Agriculture revision paper 2 page 71 Top Mark Series Agriculture Revision pg 139	
	3	Farm power and machinery	Sources of power in the Nuclear power Storage battery Electrical power	By the end of the lesson, the learner should be able to Describe nuclear power Describe storage battery Describe solar power/radiation Describe electrical power	Describing nuclear storage battery and solar power Illustration Note making Asking and answering questions	Text books Storage battery Photos of solar panels	KLB secondary Agriculture form 4 pg 54-55 Longhorn secondary Agriculture form 4 pg 51-52 Top Mark Series Agriculture Revision pg 401	
	4	Farm power and machinery	Tractor engine	By the end of the lesson, the learner should be able to Describe a four stroke cycle engine Differentiate between a petrol engine and a diesel engine	Describing a four structure engine Differentiating between dsel and petrol engine Illustration Note making Asking and answering questions	Text books Models of engines A tractor photographs	KLB secondary Agriculture form 4 pg 56-61 Longhorn secondary Agriculture form 4 pg 53-56 Top Mark Series Agriculture Revision pg 140-141 Golden tips K.C.S.E agriculture page 308	
7	1	Farm power and machine	Tractor engine	By the end of the lesson, the learner should be able to Describe a two stroke cycle engine	Describing a two stroke engine Illustration Note making Asking and answering questions	Text books Models of engines A tractor photographs	KLB secondary Agriculture form 4 pg 61-63 Longhorn secondary Agriculture form 4 pg 57-58 Top Mark Series Agriculture Revision pg 141	
	2	Farm power and	Systems of a tractor	By the end of the lesson, the	Describing the fuel and electrical systems	Text books	KLB secondary Agriculture form 4 pg 63-69	

		machinery	Fuel system Electrical system	learner should be able to Describe the fuel system Describe the electrical system Describe the maintenance of the fuel and electrical systems	Illustrations Note making Asking and answering questions Describing the maintenance of the fuel and electrical systems	Models of engines A tractor photographs	Longhorn secondary Agriculture form 4 pg 60-62 Top Mark Series Agriculture Revision pg 141-142	
	3	Farm power and machinery	Systems of a tractor Cooling systems Lubricating system	By the end of the lesson, the learner should be able to Describe the cooling and its maintenance Describe the lubricating system and its maintenance	Describing the cooling and lubricating systems and their maintenance Illustration Note making Asking and answering questions	Text books Models of engines photographs	KLB secondary Agriculture form 4 pg 69-72 Longhorn secondary Agriculture form 4 pg 63-64 Top Mark Series Agriculture Revision pg 143-144	
	4	Farm power and machinery	Systems of a tractor Transmission system	By the end of the lesson, the learner should be able to Describe the power transmission system	Describing the power transmission system Note making Illustration Asking and answering questions	Text books Models of engine photographs	KLB secondary Agriculture form 4 pg 72-76 Longhorn secondary Agriculture form 4 pg 64-65 Top Mark Series Agriculture Revision pg 144	
8	1	Farm power and machinery	Tractor servicing Short term services Long term services	By the end of the lesson, the learner should be able to Discuss the various practices on tractor maintenance, both short term services and long term services	Discussion the tractor maintenance Practices Illustrations Asking and answering questions Note making	Text books Models of engines A tractor photographs	KLB secondary Agriculture form 4 pg 76-77 Longhorn secondary Agriculture form 4 pg 65-66 Top Mark Series Agriculture Revision pg 144-145	
	2	Farm power and Machinery	Farm implements Tractor drawn implements Disc plough trailer	By the end of the lesson, the learner should be able to Outline the various methods of attachment Describe a trailer and its maintenance Identify the various plough and mould board plough State the maintenance practices	Outline the methods of attachment Describing the trailer and its maintenance Identification of parts & stating differences Illustration Note making Asking and answering of questions	Text books Photos illustrating the various implements Agricultural farm Photos illustrating a mould board plough	KLB secondary Agriculture form 4 pg 77-82 Longhorn secondary Agriculture form 4 pg 66-77 Gateway Agriculture revision paper 2 page 81 - 82 Top Mark Series Agriculture Revision pg 145 - 148	
					Description of the various		KLB secondary Agriculture	

	3	Farm power and machinery	Tractor drawn implements Harrows Disc harrows Spring time harrows Spike tooth harrow Sub soilers	By the end of the lesson, the learner should be able to Describe the various types of harrows and sub-soilers State the maintenance practices of the various types of harrows and sub-soilers	types of harrows and sub-soilers Stating the maintenance of practices of the harrows and sub-soilers Illustration Asking and answering questions Note making	Text books Photos illustrating the harrows and sub-soiler An agricultural farm	form 4 pg 82-84 Longhorn secondary Agriculture form 4 pg 73-77 Gateway Agriculture revision paper 2 page 82 Top Mark Series Agriculture Revision pg 147-148	
8	4	Farm power and machinery	Tractor drawn Implements Ridges rotary tillers mowers planters & seeders	By the end of the lesson, the learner should be able to Describe the ridges and rotary tillers, Mowers planters and seeders State the maintenance practices of the ridges mowers planters, seeders and rotary tillers	Description of the ridgers and rotary tillers Stating the maintenance practices of the ridges and rotary tiller Illustrations Not making Asking and answering questions	Text books Photos illustrating the ridges and rotary tillers Mowers, planters and seeders An agricultural farm	KLB secondary Agriculture form 4 pg 85-88 Longhorn secondary Agriculture form 4 pg 77-81 Gateway Agriculture revision paper 2 page 82-83 Top Mark Series Agriculture Revision pg 148-151	
9	1	Farm power and machinery	Tractor drawn implements Cultivators and seeders Sprayers Harvesting machines	By the end of the lesson, the learner should be able to Describe the cultivators/seeders, sprayers and various types of harvesting machine State the maintenance practices of the cultivators/seeders, sprayers and harvesting machines	Describing the cultivators/seeders, sprayers and harvesting machines Stating the maintenance practices of the cultivators seeders, sprayers and harvesting machines Illustrations Note making Asking and answering questions	Text books Photos illustrating the Cultivators/seeder Sprayers Harvesting machines An agricultural farm	KLB secondary Agriculture form 4 pg 88-90 Longhorn secondary Agriculture form 4 pg 81-82 Gateway Agriculture revision paper 2 page 84 Top Mark Series Agriculture Revision pg 149-151	
	2	Farm power and machinery	Animal drawn implements Ox-drawn plough Ox-line harrow Ox-carts Ox-ridger	By the end of the lesson, the learner should be able to Describe the ox-drawn plough, ox-time harrow, ox-carts and ox-ridger State the maintenance practices of animal drawn implements Identify the parts of an ox-	Describing the animal drawn implements Stating the maintenance of the animal drawn implements Identifying the parts of an ox-drawn plough Illustration Note making Asking and answering	Text books Photos illustrating the animal drawn implements An agricultural farm	KLB secondary Agriculture form 4 pg 91-95 Longhorn secondary Agriculture form 4 pg 82-85 Gateway Agriculture revision paper 2 page 84-85 Top Mark Series Agriculture Revision pg 152-154	

				drawn plough	questions			
	3	Agricultural economics (III) production economics	-nation income GDP GNP Per capital income	By the end of the lesson, the learner should be able to Explain how household firms and central authority contributes to the national income Explain the terms GDP, GNP and per capital income	Explaining how household firms and central authorities contribute to national income Explaining - GDP, GNP, Per capital income Illustrations Note making Questioning and answering	Text books Chart containing formulae Newspapers Statistical abstractor	KLB secondary Agriculture form 4 pg 96-98 Longhorn secondary Agriculture form 4 pg 87-90 Gateway Agriculture revision paper 2 page 101-102 Top Mark Series Agriculture Revision pg 161	
	4	Agricultural Economics (III) productions economics	Factors of production Land labour	By the end of the lesson, the learner should be able to discuss land and labour and factors of production to explain how land and labour affect production	Discussing land and labour as factors of production Explanation of how land and labour affect production Illustrations Note making Questioning and answering	Text books Newspapers Statistical abstracts	KLB secondary Agriculture form 4 pg 99-102 Longhorn secondary Agriculture form 4 pg 92-94 Gateway Agriculture revision paper 2 page 102 Top Mark Series Agriculture Revision pg 161-162	
W K	LS N	TOPIC	SUB-TOPIC	OBJECTIVES	L/ACTIVITIES	L/T AIDS	REFERENCE	REMARKS
10	1	Agricultural Economics (III) production economics	Factors of production Capital The management	By the end of the lesson, the learner should be able to Discuss capital and management as factors of production Explain how capital and management affect production	Discussion of capital and management factors of production Explanation of how capital and management affect production Illustrations Note making Questioning and answering	Text books News papers Statistical abstracts	KLB secondary Agriculture form 4 pg 102-104 Longhorn secondary Agriculture form 4 pg 94-96 Gateway Agriculture revision paper 2 page 103 Top Mark Series Agriculture Revision pg 162	
	2	Agricultural economics (III) production economics	The production function	By the end of the lesson, the learner should be able to Define production function Identify the types of production function	Defining production function Identifying the types of production functions Describing the types of production functions	Text books Graphs of various production functions Tables of various production functions	KLB secondary Agriculture form 4 pg 104-111 Longhorn secondary Agriculture form 4 pg 96-99 Gateway Agriculture revision	

				Describe the types of production function	Illustrating Asking and answering of questions		paper 2 page 103 Top Mark Series Agriculture Revision pg 162-163	
	3	Agricultural Economics (II) production economics	Economic laws and principles Law of diminishing returns	By the end of the lesson, the learner should be able to State the law of diminishing returns Explain how it affects agricultural production	Stating the law of diminishing return Explanation of how the law affects agricultural production Illustration Questioning and answering	Text books Graphs on the three zone of a production of a function Tables on production under this law	KLB secondary Agriculture form 4 pg 111-115 Longhorn secondary Agriculture form 4 pg 100-102 Gateway Agriculture revision paper 2 page 103 Top Mark Series Agriculture Revision pg 163	

	4	Agricultural economics (II) production economics	Economic law and principles Law of substitution	By the end of the lesson, the learner should be able to State the law of substitution Explain how law of substitution affects Agricultural productions	Stating the law of substitution Explanation of how the law affects agricultural production Illustration Asking and answering questions	Text books Charts Statistical abstracts	KLB secondary Agriculture form 4 pg 115-117 Longhorn secondary Agriculture form 4 pg 102-103 Gateway Agriculture revision paper 2 page 103 Top Mark Series Agriculture Revision pg 163	
11	1	Agricultural economics (III) production economics	Economic law and principles Law of equimarginal returns	By the end of the lesson, the learner should be able to State the law of equimarginal returns Explain how the law of equimarginal returns affects production	Stating the law of equimarginal returns Explaining how the law affects production Illustration Questioning and answering	Text books Charts Statistical abstracts	KLB secondary Agriculture form 4 pg 117 Longhorn secondary Agriculture form 4 pg 104-105 Gateway Agriculture revision paper 2 page 104 Top Mark Series Agriculture Revision pg 164	
	2	Agricultural Economics (III) production	Principle of profit maximization	By the end of the lesson, the learner should be able to State the principle of profit	Stating the principle of profit maximization Describe the various types of	Text books Tables on revenues Charts on revenue	KLB secondary Agriculture form 4 pg 117-121 Longhorn secondary	

		economics		maximization Describe various types of costs Explain the concept of revenue	costs Explanation of the concept of revenue Illustration Questioning and answering	Statistical abstracts	Agriculture form 4 pg 105 Gateway Agriculture revision paper 2 page 104 Top Mark Series Agriculture Revision pg 164-165	
	3	Agricultural economics (II) Production economics	Farm planning	By the end of the lesson, the learner should be able to Explain the factors to consider in drawing a farm planning Outline steps in making a farm plan	Explaining the factor to consider when drawing a farm plan Outlining the steps in making a farm plan Illustration Questioning and answering	Text books Charts Statistical abstracts	KLB secondary Agriculture form 4 pg 121-123 Longhorn secondary Agriculture form 4 pg 108-109 Gateway Agriculture revision paper 2 page 104 Top Mark Series Agriculture Revision pg 165	
	4	Agricultural Economics (III) production economics	Farm budgeting	By the end of the lesson, the learner should be able to Define farm budgeting State the importance of farm budgeting	Definition of farm budgeting Stating the importance of farm budgeting Illustration Note making Questioning and answering	Text books Farm records Ag agricultural farm	KLB secondary Agriculture form 4 pg 123-127 Longhorn secondary Agriculture form 4 pg 110-112 Gateway Agriculture revision paper 2 page 104 Top Mark Series Agriculture Revision pg 165	
12	1	Agricultural economics (III) production economics	Farm budgeting	By the end of the lesson, the learner should be able to Describe the types of budgeting in agriculture	Description of the types of budgeting Illustration Note making Question and answering	Text books Farm records An agricultural farm	KLB secondary Agriculture form 4 pg 123-127 Longhorn secondary Agriculture form 4 pg 110-112 Gateway Agriculture revision paper 2 page 104	
	2	Agricultural Economics (III) Production economics	Agricultural support services available to the farmer Extension and training Banking Credit services	By the end of the lesson, the learner should be able to explain the agricultural support services available to the farmers extension and training banking credit	Explanation of the Agricultural support services available to the farmer Illustrations Note making Questioning and answering	Text books Farm record An agricultural farm	KLB secondary Agriculture form 4 pg 112-134 Longhorn secondary Agriculture form 4 pg 112-114 Gateway Agriculture revision paper 2 page 104-106	

			Agricultural Research Marketing Veterinary services, farm input supplies, tractor hire services	AI services Agricultural research Marketing Veterinary Farm inputs Supplies Tractor hire services			Top Mark Series Agriculture Revision pg 165-167	
	3	Agricultural economics (IV) farm accounts	Risks and uncertainties in farming	By the end of the lesson, the learner should be able to Identify the types of risks on uncertainties of a farmer may face Outline the ways in which a farmer may adjust to uncertainty	Identification of the types of risk and uncertainties Outlining the ways in which a farmer may adjust to the uncertainties Illustration Note making Questioning and answering	charts Text books Financial documents An agricultural farm	KLB secondary Agriculture form 4 pg 134-136 Longhorn secondary Agriculture form 4 pg 116-119 Gateway Agriculture revision paper 2 page 106 Top Mark Series Agriculture Revision pg 166-167	
	4	Agricultural economics (IV) farm accounts	Importance of keeping farm accounts Type of farm accounts	By the end of the lesson, the learner should be able to State the importance of keeping farm accounts Identify the types of farm accounts	Stating the importance of keeping farm records Identification of the types of farm accounts Illustration A sample of financial documents charts	charts Text books Financial documents An agricultural farm	KLB secondary Agriculture form 4 pg 139 Longhorn secondary Agriculture form 4 pg 121 Gateway Agriculture revision paper 2 page 108 Top Mark Series Agriculture Revision pg 168	
13 & 14	<u>PREMOCK EXAMINATIONS AND CLOSING</u>							

1	1	Agricultural economics (IV) farm accounts	Financial statements Invoice Statement of accounts	By the end of the lesson, the learner should be able to Describe an invoice and a statement of account Distinguish between invoice and a statement of account	Distinguishing an invoice and a statement of account Describing an invoice and a statement of accounts Note making Questioning and answering	Text books An invoice An agricultural firm A chart	KLB secondary Agriculture form 4 pg 140-141 Longhorn secondary Agriculture form 4 pg 122-124 Gateway Agriculture revision	
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							paper 2 page 108 Top Mark Series Agriculture Revision pg 168	
	2	Agricultural economics (IV) farm accounts	Receipts Delivery note Purchase order	By the end of the lesson, the learner should be able to Describe a receipt, delivery note and purchase order Distinguish between, receipts, delivery note and a purchase order	Description of a receipt delivery note and a purchase order Distinguish the three documents Illustrations Note making Questioning and answering	Text books A receipt A railway note A purchase order An agricultural farm	KLB secondary Agriculture form 4 pg 141-145 Longhorn secondary Agriculture form 4 pg 124-125 Gateway Agriculture revision paper 2 page 108 Top Mark Series Agriculture Revision pg 168-169	
	3	Agricultural Economics (IV) Farm accounts	Books of accounts Cash book inventory	By the end of the lesson, the learner should be able to identify the cash book and the inventory state the uses of cash book and the inventory	identification of the cash book and the inventory stating the uses of the cash book and the inventory note making illustration questioning and answering	Text books A cash account An inventory Charts	KLB secondary Agriculture form 4 pg 146-150 Longhorn secondary Agriculture form 4 pg 125-127 Gateway Agriculture revision paper 2 page 109 Top Mark Series Agriculture Revision pg 169	
	4	Agricultural Economics (IV) farm accounts	Books of Accounts Journal ledger	By the end of the lesson, the learner should be able to describe the journal and ledger state the uses of a journal and ledger	description of the ledger and journal stating the uses of the ledger and journal illustration questioning and answering	Text books A ledger account page A journal Charts	KLB secondary Agriculture form 4 pg 150-153 Longhorn secondary Agriculture form 4 pg 127-129 Gateway Agriculture revision paper 2 page 109 Top Mark Series Agriculture Revision pg 169	
2	1	Agricultural Economics (IV) farm accounts	Financial statements Balance sheet	By the end of the lesson, the learner should be able to Analyses and prepare a balance sheet	Analyzing and preparing a balance sheet Illustration Questioning and answering Note taking Explanation	Text books Charts Format of balance sheet A balance sheet	KLB secondary Agriculture form 4 pg 154-157 Longhorn secondary Agriculture form 4 pg 124-125 Gateway Agriculture revision paper 2 page 109-111	

							Top Mark Series Agriculture Revision pg 169	
	2	Agricultural economics (IV) farm accounts	Financial statements Profit and loss account	By the end of the lesson, the learner should be able to Analyse and prepare a profit and loss account	Analyzing and preparing profit and loss account Note making Explanation Illustration Questioning and answering	Text books Charts A format of profit and loss account A profit and loss account	KLB secondary Agriculture form 4 pg 157-159 Longhorn secondary Agriculture form 4 pg 132-133 Gateway Agriculture revision paper 2 page 109-111 Top Mark Series Agriculture Revision pg 169	
	3	Agricultural economics (IV) farm accounts	Financial statements Cash analysis	By the end of the lesson, the learner should be able to Analyses and prepare a cash analysis	Analyzing and preparing cash analysis Explanation Illustration Note making Questioning and answering	Text books Charts A cash analysis	KLB secondary Agriculture form 4 pg 159-162 Longhorn secondary Agriculture form 4 pg 133-135 Gateway Agriculture revision paper 2 page 111 Top Mark Series Agriculture Revision pg 169	
	4	Agricultural Economics (V) Agricultural marketing and organization	Market and marketing	By the end of the lesson, the learner should be able to Define marketing and market Identify the types of markets Describe the various types of markets available	Definition of market and marketing Identification of the types of markets Description of the various types Note taking Asking and answering questions Illustrations	Text books Charts Local markets	KLB secondary Agriculture form 4 pg 137-138 Longhorn secondary Agriculture form 4 pg 164-166 Gateway Agriculture revision paper 2 page 109-111 Top Mark Series Agriculture Revision pg 173	
3	1	Agricultural Economics (V) Agricultural marketing and organization	Demand, supply and price theory demand	By the end of the lesson, the learner should be able to Define demand State the law of demand Explain the factors influencing demand for a commodity	Define demand Stating the law of demand Explaining the factors influencing demand Note taking Asking and answering questions illustration	Text books Charts A local market Tables Graphs	KLB secondary Agriculture form 4 pg 166-169 Longhorn secondary Agriculture form 4 pg 139-141 Gateway Agriculture revision paper 2 page 114 Top Mark Series Agriculture	

							Revision pg 174	
	2	Agricultural Economics (V) Agricultural marketing and organization	Elasticity of Demand (ED)	By the end of the lesson, the learner should be able to Describe elasticity of demand Explain the factors influencing elasticity of demand	Description of elasticity Explanation of the factors that influencing elasticity of demand Illustration Note making Questioning and answering	Text book Local market Tables Graphs	KLB secondary Agriculture form 4 pg 170-174 Longhorn secondary Agriculture form 4 pg 140-144 Gateway Agriculture revision paper 2 page 114 Top Mark Series Agriculture Revision pg 174	
	3	Agricultural Economics (V) Agricultural marketing and organization	Supply	By the end of the lesson, the learner should be able to Define supply State the law of supply Explain the factors influencing supply of a commodity	Definition of supply Explanation Stating the law of supply Illustration Note making Questioning and answering	Text book A local market Charts Tables Graphs	KLB secondary Agriculture form 4 pg 174-177 Longhorn secondary Agriculture form 4 pg 144-145 Gateway Agriculture revision paper 2 page 115 Top Mark Series Agriculture Revision pg 174-175	
	4	Agricultural Economics (V) Agricultural marketing and organization	Elasticity of Supply (ES)	By the end of the lesson, the learner should be able to Describe elasticity of supply	Description of elasticity of supply Explanation Illustration Note making Asking and answering questions	Text books A local market Tables Graph charts	KLB secondary Agriculture form 4 pg 177-178 Longhorn secondary Agriculture form 4 pg 145-149 Gateway Agriculture revision paper 2 page 115 Top Mark Series Agriculture Revision pg 17	
4	1	Agricultural economics (V) Agricultural marketing and organization	Price Theory	By the end of the lesson, the learner should be able to Define the term price Discuss the determination of market prices	Definition of the term price Discussion of the market price determination Illustrations Note taking Questioning and answering	Text books A local market Tables graphs	KLB secondary Agriculture form 4 pg 178-179 Longhorn secondary Agriculture form 4 pg 149-150 Gateway Agriculture revision paper 2 page 115 Top Mark Series Agriculture Revision pg 175	

	2	Agricultural Economics (V) Agricultural marketing and organization	Price control	By the end of the lesson, the learner should be able to Describe price control Illustrate the price control graphically	Description of price control Illustration of price control graphically Note taking Asking and answering questions	Text books A local market Tales Graphs charts	KLB secondary Agriculture form 4 pg 178-179 Longhorn secondary Agriculture form 4 pg 149-150 Gateway Agriculture revision paper 2 page 115 Top Mark Series Agriculture Revision pg 175	
	3	Agricultural Economics (V) Agricultural marketing and organization	Marketing Marketing functions	By the end of the lesson, the learner should be able to Define the term marketing Identify the meaning of the term marketing functions Discuss the various marketing functions	Discussion Defining marketing Explanations Illustration Note making Questioning and answering	Text books Charts A local market	KLB secondary Agriculture form 4 pg 186-189 Longhorn secondary Agriculture form 4 pg 153-156 Gateway Agriculture revision paper 2 page 116 Top Mark Series Agriculture Revision pg 176	
	4	Agricultural Economics (V) Agricultural marketing and organization	Agricultural organizations	By the end of the lesson, the learner should be able to Describe agricultural organizations List the various agricultural organizations List the functions of the various organizations	Description Listing the agricultural organization Listing functions of the organization Illustration Note taking Asking and answering questions	Text books Charts A local market	KLB secondary Agriculture form 4 pg 189-192 Longhorn secondary Agriculture form 4 pg 157-159 Gateway Agriculture revision paper 2 page 92-94 Top Mark Series Agriculture Revision pg 176	

5	1	Agricultural Economics (V) Agricultural marketing and organization	Co-operative societies	By the end of the lesson, the learner should be able to Define a co-operative Describe the formation of a co-operative Outline the principles of co-operatives Give the types of co-operative societies State the functions of farmers co-operative societies	Defining a co-operative Description Outlining principles of a co-operative Giving types of co-operatives Stating the functions of a co-operative	Text books Local market Wall charts	KLB secondary Agriculture form 4 pg 192-195 Longhorn secondary Agriculture form 4 pg 159-162 Gateway Agriculture revision paper 2 page 117 Top Mark Series Agriculture Revision pg 176-177
	2	Agricultural Economics (V) Agricultural marketing and organization	Association and unions	By the end of the lesson, the learner should be able to List the various agricultural union State the roles of agricultural unions	Listing the various unions Stating their roles Illustrations Asking and answering questions	Text books Farmers Magazines Wall charts	KLB secondary Agriculture form 4 pg 192-195 Longhorn secondary Agriculture form 4 pg 159-162 Gateway Agriculture revision paper 2 page 117 Top Mark Series Agriculture Revision pg 177
	3	Agroforestry	Forms of Agroforestry Importance of agroforestry	By the end of the lesson,, the learner should be able to Define agroforestry Describe the various forms of agroforestry State the importance of agroforestry	Definition of agroforestry Description Stating the importance of agroforestry Illustration Note taking Questioning and answering	Text books Specimen of fees and shrubs Charts Photos Agroforestry farm	KLB secondary Agriculture form 4 pg 200-203 Longhorn secondary Agriculture form 4 pg 166-168 Gateway Agriculture revision paper 2 page 139 Top Mark Series Agriculture Revision pg 22
	4	Agroforestry	Tree nursery	By the end of the lesson, the learner should be able to List various types of tree nurseries Describe the various types of tree nurseries	Listing the types of nurseries Description Note making Illustration Asking and answering questions	Text books Nursery books Nursery beds Agroforestry farm Charts photos	KLB secondary Agriculture form 4 pg 203 Longhorn secondary Agriculture form 4 pg 168-170 Gateway Agriculture revision paper 2 page 100-101 Top Mark Series Agriculture Revision pg 23

7	1, 2, 3 & 4	Agroforestry	Nursery establishment and management	By the end of the lesson, the learner should be able to Discuss the establishment of tree nurseries Describe the management of tree nurseries	Discussion Description Illustration Note taking Asking and answering questions explanation	text books garden tools tree seedlings charts watering cans nursery beds	KLB secondary Agriculture form 4 pg 203 Longhorn secondary Agriculture form 4 pg 168-170 Gateway Agriculture revision paper 2 page 100-101 Top Mark Series Agriculture Revision pg 23		
WK	L S N	TOPIC	SUB-TOPIC	OBJECTIVES	L/ACTIVITIES	L/T AIDS	REFERENCE	REMARKS	
8	1 & 2	Agroforestry	Care and management of trees Agroforestry practices	By the end of the lesson, the learner should be able to Discuss the various care and management of trees Discuss the various agroforestry practices	Discussion Explanation Illustration Asking and answering questions Note making	Text books Nursery beds Watering cans Garden tools Tree seedlings charts	KLB secondary Agriculture form 4 pg 208-212 Longhorn secondary Agriculture form 4 pg 174-175 Gateway Agriculture revision paper 2 page 143 Top Mark Series Agriculture Revision pg 25-26		
	3 & 4	Agroforestry	Sites for agroforestry trees Tree harvesting methods	By the end of the lesson, the learner should be able to Describe the sites for agroforestry trees Discuss the various tree harvesting methods	Description Discussion Note making Illustration Question and answers methods	Text books Nursery beds Watering cans Garden tools Tree seedlings Charts	KLB secondary Agriculture form 4 pg 212-217 Longhorn secondary Agriculture form 4 pg 176-179 Gateway Agriculture revision paper 2 page 144 Top Mark Series Agriculture Revision pg 26-27		
9, 10 & 11		TOPICAL EXAMS							
12, 13, 14		JOINT DISTRICT EXAMINATIONS AND CLOSING							

AGRICULTURE SCHEMES OF WORK
FORM FOUR 2013
TERM III

REFERENCES:

1. Longhorn Secondary Agriculture Book
2. Golden Tips KCSE Agriculture
3. Certificate Agriculture Book
4. KLB Top Mark Agriculture
5. KLB Secondary Agriculture
6. Teacher's Guide

WK	
1, 2, 3	REVISION OF THE JOINT EXAMINATIONS
3	TOPICAL REVISION EXAMINATIONS
4, 5, 6,	POST MOCK EXAMINATIONS
7	REVISION OF POST MOCK AND PREPARATION FOR KCSE EXAMINATIONS