**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

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| 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 faming  Mixed  Nomadic  Shifting  Organic  agro forestry | By the end of the lesson ,the learner should be able to  identify various methods of farming  explain the various methods | explanations of the methods  identification of methods  note taking | photographs  livestock product  charts  chalkboard | KLB secondary Agriculture form 1 pg 6-8  Certificate F1 pg 7-10  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 |  |
| **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 | 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  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 leaner 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

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| WK | LSN | **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 plumbing and masonry tools and equipment  Carry out maintenance practices on plumbing and masonry tools and equipment | 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 |  |
| **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 |  |

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| **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 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 irrigation and drainage | Water treatment methods and importance | By the end of the lesson, the learner should be able to  State methods of water treatment  Describe the method  State the importance of water treatment | Stating the methods of water treatment  Describing the methods  Stating importance of water | Charts  Water treatment plants  Diagrams in the student book | KLB secondary Agriculture form 1 pg 126-129  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 |  |
|  | **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 | KLB secondary Agriculture 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

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| WK | LSN | **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  Describe their characteristics  Draw the external parts of cattle  Label the external parts of the cattle | Identifying various breeds  Describing the characteristics of cattle breeds  Drawing external parts of cattle  Labeling the external parts of cattle | Charts  Photographs  School farm  Drawings from the student’s book. | KLB secondary Agriculture form 1 pg 162-165  Certificate Secondary 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 pars | 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  Meat  Hair | By the end of the lesson, the learner should be able to  identify various breeds  describe their characteristics  draw the external parts of the goat  label the external parts of the goat | identifying various breeds  describing the characteristics of goat breeds  drawing the external parts of the goat | charts  photographs  drawing from the student books  school farm | KLB secondary Agriculture form 1 pg 179-182  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  Characteristics  drawings | By the end of the lesson, the learner should be able to  Identify various breeds  Describe their characteristics  Draw and label the external parts | Identifying various breeds  Describing their characteristics  Drawing the external parts of rabbit  Labeling the various parts | Photographs  Charts  Drawings in the students book  School farm | KLB secondary Agriculture 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 |  |

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|  | **2-3** | Agriculture Economics | Economics  Definition  Agricultural economics | By the end of the lesson, the leaner should be able to  Define economics  Define agricultural economics  Explain the factors of production | 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 190-191  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 leaner 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 |  |
| **12 END TERM THREE EXAMS** | | | | | | | | |

**AGRICULTURE SCHEMES OF WORK**

**FORM TWO 2013**

**TERM I**

**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

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| WK | LSN | **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 leaner 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 leaner 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  State methods of fertilizer application  Explaining various methods of fertilizer application | Stating various methods  Explaining various methods of fertilizer application  Describing the various methods of fertilizer application | School farm  Buckets  Fertilizer samples  Panga  Soil  Spade | KLB secondary Agriculture form 2 pg 12-13  Certificate Secondary 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 leaner 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 leaner 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  Breaking seed dormancy  Dressing  Seed inoculation  chitin | By the end of the lesson, the learner should be able to  Prepare planting materials  Determine optimum planting time  Describe methods of planting | Preparing planting materials  Determining optimum planting time  Describing methods of planting | Planting line  Tape measure  Planting materials | KLB secondary Agriculture form 2 pg 35-39  Certificate Secondary 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 leaner 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 grafting  Give reasons for grafting | Defining grafting  Describing methods of grafting  Giving reasons for grafting | Knives  Grafting materials  Students book  Raising boxes | KLB secondary Agriculture form 2 pg 53-55  Certificate Secondary Agriculture F1 pg 35-36  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 transplanting seedlings | 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 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**  **13** |  | **TOPICAL REVISION** | | | | | |  |
| **14** |  | **END OF TERM ONE EXAMINATIONS** | | | | | |  |
| **15** |  | **CLOSING** | | | | | |  |

**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

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| WK | LSN | **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  State principles 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  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 progamme  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  Earthling up  Weed control  Pest and disease control | By the end of the lesson, the learner should be able to  Describe how to carry out the routine field practices  State the importance of each practices | Stating the importance of various practices  Describing how to carry out the routine field practices |  | KLB secondary Agriculture form 2 pg 85-87  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 leaner 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 tolls  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 leaner 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 leaner should be able to  Define health and disease  State the importance of livestock health  State the predisposing factors of diseases | Defining health and disease  Stating the importance of livestock health  Stating the predisposing factors of diseases | Livestock species  Farm  Students book | KLB secondary Agriculture form 2 pg 115-119  Certificate Secondary 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 leaner 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 leaner 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

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| WK | LSN | **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 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  Parasite specimen  Students book  photographs | KLB secondary Agriculture form 2 pg 149-151  Certificate Secondary 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 leaner 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 leaner 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 leaner 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 |  |

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|  | **2-3** | Livestock production (II) nutrition | Foods and foods stuffs  Concentrates  Proteins  Carbohydrate  Mixed succulents | By the end of the lesson, the leaner 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 station | 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) nutrition | Digestion in livestock | By the end of the lesson, the leaner should be able to  Define digestion  Describe the process of digestion generally | Defining digestion  Describing the process of digestion | Chart  Diagrams in the students book  Specimens of digestive systems  School farm | KLB secondary Agriculture 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 60th 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 |  | |
| **12 END TERM THREE EXAMS** | | | | | | | | |

**AGRICULTURE SCHEMES OF WORK**

**FORM THREE 2013**

**TERM I**

**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

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| WK | LSN | **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 leaner 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 |  |

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| **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 insemination  Embryo transplant | By the end of the lesson, the leaner should be able to  Identify the various services in livestock  Describe the methods of services in livestock  Explain the advantages & disadvantages of the methods | Identifying the various methods of services  Describing the methods of services in livestock  Drawing diagrams  Explaining the advantages & disadvantages | 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  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)  Livestock Rearing | Breeding practices | By the end of the lesson, the learner should be able to  State the breeding practices  Describe the various breeding practices  Carry out the various practices | Stating the breeding practices  Describing the various breeding practices  Carrying out the various practices | Livestock drugs  Livestock tools  Photographs  Students book  Diagrams on the students book  Livestock  Livestock farm | KLB secondary Agriculture form 3 pg 27-29  Longhorn secondary 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 leaner 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 carrying 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 constructions  State the maintenance of a crush  Explain the uses of a crush | Identifying materials used n construction of crush  Stating the maintenance of a crush  Explaining the various uses of a crush | Crush  Constructional materials  Student’s book  Photographs | KLB secondary Agriculture form 3 pg93-94  Longhorn secondary Agriculture form 3 pg 81-83  Teachers guide pg 59-60  Access secondary Agriculture Revision page 236  Golden tips agriculture page 251-252 |  | |
| **9** | **1** | Farm structures | Livestock Structures- Dips | 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* | Identifying materials used in constructions  Stating the maintenance of a dip  Explaining the uses of the dip  Drawing the structures | Dip construction materials  Photographs  Diagrams from the students book | 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 |  | |
|  | **2** | Farm structures | Livestock structures  Spray race  Dairy shed | By the end of the lesson, the learner should be able to  Identify the constructional materials used  State the uses of these structures | Identifying materials used in construction  Stating the uses of the structure  Drawing the structures | Diagrams from the students book  Photographs  Construction materials  Spray race and dairy shed | 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 |  | |
|  | **3-4** | Farm structures | Livestock structure  Calf pens  Poultry houses  Rabbits hutches  Pig sty’s | By the end of the lesson, the learner should be able to  Name the construction materials used  State the uses of these structures  Describe the construction of the materials | Naming the construction materials  Stating the uses of the structures  Describing the construction of the structures | Calf pens  Poultry houses  Rabbit hutches  Pig stys  Construction materials  Photographs  Students book  Diagrams on the students book | KLB secondary Agriculture form 3 pg 194-114,115  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 structures  Describe the process of constructing a farm store | 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  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

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| WK | LSN | **TOPIC** | **SUB-TOPIC** | **OBJECTIVES** | **L/ACTIVITIES** | **L/T AIDS** | **REFERENCE** | **REMARKS** |
| **1** | **1** | Agricultural Economics (III)  Land tenure and reforms | Land tenure types  Collective tenure systems | By the end of the lesson, the learner should be able to  Define land tenure  State the types of land tenure  Describe the collective tenure systems | Defining the term land tenure  Stating the types of land tenure  Describing the collective systems | Charts  Students book  Chalk board | KLB secondary Agriculture 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 earner 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 leaner should be able to  Name methods used to harvest water  Describe water harvesting and conservation techniques  Explain the micro catchment and their uses | 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  Gutters  Ponds | KLB secondary Agriculture form 3 pg 187-191  Longhorn secondary Agriculture form 3 pg 149-159  Teachers guide pg 81-82  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 |  |

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|  | **3-4** | Weeds and weed control | Weeds competitive abilities of weeds  Harmful effects of weeds | By the end of the lesson, the learner should be able to  Identify the various weeds  Classify the various weeds | Identify the various weeds  Classifying the various weeds | Weed specimen  School farm  Photographs  Diagrams in students book | KLB secondary Agriculture form 3 pg 200-202  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 herbicides  Explaining factors affecting selectivity and effectiveness of herbicides  Identifying the precautions in using chemicals  Stating the advantages and disadvantages of herbicides | Explaining ways in which chemicals kill weeds  Stating the classifications of herbicides  Explaining factors affecting selectivity and effectiveness of herbicides  Identifying the precautions in using chemicals  Stating the advantages and disadvantages of herbicides | Garden tools  Students book  Photographs  School farm  Weed specimen | KLB secondary Agriculture form 3 pg 203-208  Longhorn secondary Agriculture form 3 pg 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 where they are found of habitat | 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  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 measures | Describing the effects of pests  Identifying pests control measure | Students book  Specimens of crop pests  Crops attacked  Pesticides  Photography  Pests | KLB secondary Agriculture form 3 pg 213-226  Longhorn secondary Agriculture form 3 pg 83-86  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

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| WK | LSN | **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 | 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  Describe pasture management | 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  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  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 | Describing the field production of sorghum and Guatemala grass | Students book  Specimens of fodder crops  Photographs of forage crops  School farm | KLB secondary Agriculture form 3 pg 269-272  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 folder  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 requirements establishment, management and utilization  Describe the production of marigold under ecological requirements and utilization | Describing the field production of disodium and marigold | Students book  Specimens of fodder crops  Photographs of fodder crops  School farm | KLB secondary Agriculture form 3 pg 295-297  Longhorn secondary Agriculture form 3 pg 247-248  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 |  |

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|  | **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 coccidiosisis | Describing coccidiosisis  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** |  | Tryponosomiasis | 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 |  |

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| **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 Swine Fever | Describing African Swine Fever  Note taking  Asking and answering questions | Photograph 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 |  |
| **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:**

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

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| WK | LSN | **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) poultry | Natural Brooding | By the end of the lesson, the learner should be able to  Define the term brooding  Describe natural brooding | Defining and describing natural brooding  Note making  Asking and answering questions  illustration | text books  diagram of broody hen  Realia of a broody hen  samples of chicken variety | KLB secondary Agriculture form 4 pg 9  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  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 | Identifying the causes of stress in chicken  Stating the control measures of stress in chicken  Identify the vices on chicken and control measures  Illustration  Note making  Asking and answering questions | Text books  Poultry farm  photographs | KLB secondary Agriculture form 4 pg 16-24  Longhorn secondary 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 (Cattle) | Calf housing | By the end of the lesson, the learner should be able to  Identify the types of calf pens  Outline the requirements of calf pens | Identifying the types of calf pens  Outlining the requirements of calf pens  Illustration  Note making  Asking and answering questions | Text books  Dairy farm  Calf pen  Diagrams and photos of calf pens | KLB secondary Agriculture form 4 pg 32-34  Longhorn secondary 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 milk  Discuss the marketing of Beef | Discussing the marketing of milk and beef  Illustration  Note making  Asking and answering questions | Students text book  Milk products  Photographs | KLB secondary Agriculture form 4 pg 47-48  Longhorn secondary Agriculture form 4 pg 38-41  Golden tips K.C.S.E agriculture page 3- 10 |  |

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|  | **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 biogas charcoal and wood fuel | describing biogas wood and fuel  stating the advantages of biogas, charcoal and wood fuel | text books  wood and charcoal  biogas plant  photos  diagram of biogas digester | KLB secondary Agriculture form 4 pg 52-54  Longhorn secondary Agriculture form 4 pg 46-48  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 machinery | Systems of a tractor  Fuel system  Electrical system | By the end of the lesson, the learner should be able to  Describe the fuel system  Describe the electrical system  Describe the maintenance of the fuel and electrical systems | Describing the fuel and electrical systems  Illustrations  Note making  Asking and answering questions  Describing the maintenance of the fuel and electrical systems | Text books  Models of engines  A tractor  photographs | KLB secondary Agriculture form 4 pg 63-69  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 coding and its maintenance  Describe the lubricating system and its maintenance | Describing the coolong 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 |  |
|  | **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 | Description of the various 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 | KLB secondary Agriculture 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-drawn plough | 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 questions | 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 |  |
|  | **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 |  |

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| WK | LSN | **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  Describe the types of production function | Defining production function  Identifying the types of production functions  Describing the types of production functions  Illustrating  Asking and answering of questions | 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 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 rations | 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 |  |

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|  | **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 equimarignal 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 economics | Principle of profit maximization | By the end of the lesson, the learner should be able to  State the principle of profit maximization  Describe various types of costs  Explain the concept of revenue | Stating the principle of profit maximization  Describe the various types of costs  Explanation of the concept of revenue  Illustration  Questioning and answering | Text books  Tables on revenues  Charts on revenue  Statistical abstracts | KLB secondary Agriculture form 4 pg 117-121  Longhorn secondary 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  Agricultural Research  Marketing  Veterinary services, farm input supplies, tractor hire 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  AI services  Agricultural research  Marketing  Veterinary  Farm inputs  Supplies  Tractor hire services | 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  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** |  | **PREMOCK EXAMINATIONS AND CLOSING** | | | | | | |

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| **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 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 |  |

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| **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 Agro foresty  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 |  |

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| WK | LSN | **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  Watery 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

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| 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 |