**AGRICULTURE SCHEMES OF WORK**

**FORM TWO 2015**

**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 | 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 (I) | 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 | 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 | 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 2015**

**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 2015**

**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** | | | | | | | | |