**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

Compiled by Schools Net Kenya (SNK) in partnership with Jospa Publishers | P.O. Box 3029 – 00200 Nairobi |

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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 toList essential elementsClassify the essential elements | Listing essential elementsClassifying the essential elements | Students bookCharts on classification of essential minerals | KLB secondary Agriculture form 2 pg 1,6Certificate Secondary Agriculture F2 pg 1-2 Longhorn secondary Agriculture form 2 pg 1-2Teachers guide pg 33-36Gateway Agriculture revision paper 1 page 37, 39Top mark Agriculture page 37 |  |
|  | **2-3** | Soil Fertility (II) | Essential elements | By the end of the lesson, the learner should be able toState the role of each macro-elementDescribe the deficiency symptoms of the macro-nutrients | Stating the role of macro-elementsDescribing the deficiency symptoms of the macro-nutrients | PhotographsTables in student booksPlant samples | KLB secondary Agriculture form 2 pg 1-5Certificate Secondary Agriculture F2 pg 2-5 Longhorn secondary Agriculture form 1 pg 2-12Teachers guide pg 33-36Gateway Agriculture revision paper 1 page 1-4Top mark Agriculture page 37-38 |  |
| **2** | **1** | Soil Fertility (I)  | Essential elements | By the end of the lesson, the leaner should be able toState the role of each micro-elementDescribe the deficiency symptoms of the macro-nutrients | Stating the role of micro nutrientsDescribing their deficiency symptoms | PhotographsTables in the students bookPlant samples | KLB secondary Agriculture form 1 pg 6-7Certificate Secondary Agriculture F1 pg 1-2 Longhorn secondary Agriculture form 1 pg 10-11Teachers guide pg 33-36Gateway Agriculture revision paper 1 page 66-68Top mark Agriculture page 75 |  |
|  | **2-3** | Soil Fertility (II) | Inorganic fertilizers | By the end of the lesson, the learner should be able toClassify fertilizersIdentify fertilizersDescribe the properties of various fertilizers | Classifying fertilizersIdentifying fertilizersDescribing the properties of various fertilizers | Photographs of fertilizersStudents bookFertilizers samples | KLB secondary Agriculture form 1 pg 7-12Certificate Secondary Agriculture F1 pg 5-8 Longhorn secondary Agriculture form 1 pg 11-18Teachers guide pg 36-38Gateway 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 toState methods of fertilizer applicationExplaining various methods of fertilizer application | Stating various methodsExplaining various methods of fertilizer applicationDescribing the various methods of fertilizer application | School farmBucketsFertilizer samplesPangaSoil Spade  | KLB secondary Agriculture form 2 pg 12-13Certificate Secondary Agriculture F2 pg 9 Longhorn secondary Agriculture form 1 pg 18-21Teachers guide pg 36-38Gateway Agriculture revision paper 1 page 70 |  |
|  | **2-3** | Soil Fertility (II) | Inorganic fertilizers | By the end of the lesson, the learner should be able toCalculate the fertilizer gradeCalculate fertilizer ratioDetermine fertilizer amount per lecture | Calculating fertilizer rates | School farmStudents book | KLB secondary Agriculture form 1 pg 6-7Certificate Secondary Agriculture F1 pg 1-2 Longhorn secondary Agriculture form 1 pg 10-11Teachers guide pg 33-36Gateway Agriculture revision paper 1 page 66-68Top mark Agriculture page 75 |  |
| **4** | **1** | Soil Fertility | Soil Sampling | By the end of the lesson, the learner should be able toDefine soil samplingExplain the sampling methodsDescribe sampling procedures | Defining soil samplingExplain the sampling methodsDescribing sampling procedures | ChartsSoil samplesStudents bookPolythene bags | KLB secondary Agriculture form 2 pg 20-21Certificate Secondary Agriculture F1 pg 11 Longhorn secondary Agriculture form 2 pg 23-24Teachers guide pg 39-41Top mark Agriculture page 41-42 |  |
|  | **2-3** | Soil Fertility | Soil testing | By the end of the lesson, the learner should be able toDefine soil testingExplain the importance of soil testingDescribe soil testing procedureExplain how soil PH affects crop production | Defining soil testingExplaining the importance of soil testingDescribing soil testing procedureExplaining how | Test tubesDiagrams in students bookDistilled waterSoil testing reagentsPH scale | KLB secondary Agriculture form 1 pg 22-26Certificate Secondary Agriculture F1 pg 12-13 Longhorn secondary Agriculture form 1 pg 24-28Teachers guide pg 39-41Gateway Agriculture revision paper 1 page 71Top mark Agriculture page 42 |  |
| **5** | **1** | Crop Production (II)  | Planting materials | By the end of the lesson, the leaner should be able toDescribe types of planting materialsState advantages and disadvantages of planting materials | Describing types of planting materialsStating the advantages and disadvantages | Seed samplesVegetative partsStudents bookSchool farm | KLB secondary Agriculture form 1 pg 27-28Certificate Secondary Agriculture F1 pg 15-17 Longhorn secondary Agriculture form 1 pg 33-35Teachers guide pg 45-46Gateway Agriculture revision paper 1 page 28 |  |
|  | **2-3** | Crop production (II) | Planting materials | By the end of the lesson, the leaner should be able toState various parts used for vegetative propagationDescribe various parts used for vegetative propagation | Stating various partsDescribing various parts used for vegetative propagation | School farmVarious vegetative partsDiagrams in the students book | KLB secondary Agriculture form 2 pg 29-34Certificate Secondary Agriculture F1 pg 15-17 Longhorn secondary Agriculture form 2 pg 35-40Teachers guide pg 45-47Gateway 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 toSelect planting materials | Selecting planting materials | Tape measureStudent’s booksSchool farmPlanting lineSeed dressersPlanting materials | KLB secondary Agriculture form 2 pg 34-35Certificate Secondary Agriculture F1 pg 18-19 Longhorn secondary Agriculture form 2 pg 35-40Teachers guide pg 47-48Gateway Agriculture revision paper 1 page 30 |  |
|  | **2-3** | Crop Production (II) | Preparation of PlantingBreaking seed dormancyDressingSeed inoculationchitin | By the end of the lesson, the learner should be able toPrepare planting materialsDetermine optimum planting timeDescribe methods of planting | Preparing planting materialsDetermining optimum planting timeDescribing methods of planting | Planting lineTape measurePlanting materials | KLB secondary Agriculture form 2 pg 35-39Certificate Secondary Agriculture F1 pg 20-22 Longhorn secondary Agriculture form 2 pg 49-50Teachers guide pg 35-39Gateway 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 toCalculate plant population of various crops | Calculating plant population | ChartsSchool farmSeeds for planting | KLB secondary Agriculture form 2 pg 29-34Certificate Secondary Agriculture F1 pg 26 Longhorn secondary Agriculture form 2 pg 49-50Teachers guide pg 50-51Gateway 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 toState factors determining spacing, seed rate and depthExplain the factors which determine spacing depth and seed rate | Stating factorsExplaining factors which determine spacing, depth and seed rate | Tape measureSchool farmPangaJembeStudents book diagram | KLB secondary Agriculture form 2 pg 42-45Certificate Secondary Agriculture F1 pg 24-26 Longhorn secondary Agriculture form 2 pg 50-54Teachers guide pg 51-52Gateway Agriculture revision paper 1 page 32-33 |  |
| **8** | **1** | Crop Production (III) Nursery practices | Nursery practicesNursery bedSeed bedSeedling bed | By the end of the lesson, the learner should be able toDefine nursery practicesDescribe nursery bed, seed bed and seedling bedDistinguish between nursery, seedling and seed bed | Garden toolsSchool farmNursery bedsStudents bookDiagrams on the students bookcharts | garden toolsschool farmnursery bedsstudents bookdiagrams on the students bookcharts | KLB secondary Agriculture form 2 pg 46Certificate Secondary Agriculture F1 pg 28 Longhorn secondary Agriculture form 2 pg 56-57Teachers guide pg 54-56Gateway Agriculture revision paper 1 page 34 |  |
|  | **2-3** | Crop Production (III) Nursery Practices | Nursery bedImportanceSite selectionVegetable nurseries | By the end of the lesson, the learner should be able toState the importance of nursery in crop propagationSelect a suitable site for the nurseryPrepare a nursery bed for vegetables | Stating importance of nurserySelecting suitable sites for nurseryPreparing nursery bed for vegetables | Nursery bedsSchool farmDiagrams from students booksGarden toolsStudents books | KLB secondary Agriculture form 2 pg 46-49Certificate Secondary Agriculture F1 pg 28-29 Longhorn secondary Agriculture form 2 pg 57-58Teachers guide pg 54-56Gateway Agriculture revision paper 1 page 34-35Top 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 nurseryEstablish a tree nursery | Establishing a vegetable and a tree nursery | ChartsDiagrams from students bookSchool farmSchool nurseriesBoxesGrass  | KLB secondary Agriculture form 2 pg 48-49Certificate Secondary Agriculture F1 pg 29-32 Longhorn secondary Agriculture form 2 pg 58-60Teachers guide pg 54-56Top mark Agriculture page 34 |  |
|  | **2-3** | Crop production (III) | Nursery Establishment | By the end of the lesson, the learner should be able toEstablish tea nursery using cuttingsManage a nursery bed | Establishing tea nursery using cuttingsManaging nursery bed | Tea cuttings photographsSchool farmDiagrams from students book | KLB secondary Agriculture form 2 pg 49-51Certificate Secondary Agriculture F1 pg 30-32 Longhorn secondary Agriculture form 2 pg 60-62Teachers guide pg 54-58Gateway Agriculture revision paper 1 page 35 |  |
| **10** | **1** | Crop production (III) | Grafting | By the end of the lesson, the learner should be able toDefine graftingDescribe the methods of graftingGive reasons for grafting | Defining graftingDescribing methods of graftingGiving reasons for grafting | KnivesGrafting materialsStudents bookRaising boxes | KLB secondary Agriculture form 2 pg 53-55Certificate Secondary Agriculture F1 pg 35-36 Longhorn secondary Agriculture form 2 pg 64-65Teachers guide pg 58-59Gateway Agriculture revision paper 1 page 36Top mark Agriculture page 35-36 |  |
|  | **2-3** |  | Budding | By the end of the lesson, the learner should be able toDefine buddingDescribe methods of buddingState the importance of budding | Defining buddingDescribing methods of buddingGiving reasons for budding | School farmWaterBudding materials Students bookknives | KLB secondary Agriculture form 2 pg 55-58Certificate Secondary Agriculture F1 pg 34-35Longhorn secondary Agriculture form 2 pg 66-70Teachers guide pg 57-59Gateway Agriculture revision paper 1 page 36Top mark Agriculture page 35 |  |
| **11** | **1** | Crop Production (III) | layering | By the end of the lesson, the learner should be able toDefine layeringDescribe methods of layeringState the importance of layering | Defining layeringDescribing methods of layeringGiving importance of layering | PegStringsSchool farmRoot mediumStudent books | KLB secondary Agriculture form 2 pg 58-60Certificate Secondary Agriculture F1 pg 41-44 Longhorn secondary Agriculture form 2 pg 71-72Teachers guide pg 59Gateway Agriculture revision paper 1 page 36-37Top mark Agriculture page 35 |  |
|  | **2-3** | Crop production (III) | Tissue cultureTransplanting seedlings | By the end of the lesson, the learner should be able toDefine tissue cultureExplain importance of tissue culture in crop propagationDescribe the procedure of transplanting seedlings | Defining tissue cultureExplaining importance of tissue cultureDescribing procedure of transplanting seedlings | School farmGarden trowelSchool nurserySeedlingsDiagramsStudents books | KLB secondary Agriculture form 2 pg 61-66Certificate Secondary Agriculture F1 pg 41-44 Longhorn secondary Agriculture form 2 pg 72-77Teachers guide pg 60-61Gateway Agriculture revision paper 1 page 36-37Top 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 toDefine crop rotationExplain the importance of crop rotationState principles of crop rotation | Defining crop rotationExplaining the importance of crop rotationStating principles of crop rotation | ChartsSchool farmDiagrams in the students book | KLB secondary Agriculture form 2 pg 67-68Certificate Secondary Agriculture F1 pg 50 Teachers guide pg 59Gateway Agriculture revision paper 1 page 40Top mark Agriculture page 43 |  |
|  | **2-3** | Crop production (IV) field practices | Crop Rotation  | By the end of the lesson, the learner should be able toIdentify factors influencing crop rotationDraw a crop rotation programmeDistinguish terms used in crop farming | Identifying factors influencing crop rotationDrawing a crop rotation progammeDistinguishing terms used in crop farming | PhotographsChartsSchool farmDiagrams in the students book | KLB secondary Agriculture form 2 pg 69-71Certificate Secondary Agriculture F1 pg 50-51 Longhorn secondary Agriculture form 2 pg 79-80Teachers guide pg 84-88Gateway Agriculture revision paper 1 page 40-42 |  |
| **2** | **1** | Field Practices | Mulching | By the end of the lesson, the learner should be able toDefine mulchingState the importance of mulching | Defining mulchingStating the importance of mulching | Samples of mulchSchool farmPhotograph in students book | KLB secondary Agriculture form 2 pg 71-72Certificate Secondary Agriculture F1 pg 51-52 Longhorn secondary Agriculture form 2 pg 82-84Teachers guide pg 59Gateway Agriculture revision paper 1 page 36-37Top mark Agriculture page 43 |  |
|  | **2-3** | Field Practices | RoutineField practicesThinningGapping Training | By the end of the lesson, the learner should be able toState the various routine practicesDescribe importance of field practicesCarry out field practices | Stating various routine practicesDescribing importance of field practicesCarrying out field practices | School farmPruning sawPruning knivesJembesDiagrams in students bookwire | KLB secondary Agriculture form 2 pg 72-74Certificate Secondary Agriculture F1 pg 52-54 Longhorn secondary Agriculture form 2 pg 88-90Teachers guide pg 67-68Gateway Agriculture revision paper 1 page 36-37Top mark Agriculture page 44 |  |
| **3** | **1** | Field Practices | Pruning | By the end of the lesson, the learner should be able toDefine pruningGive reasons for pruningDescribe procedure of pruning | Defining pruningGiving reasons for pruningDescribing the procedure of pruning | Running toolsSchool farmDiagrams in the students booksecateurs | KLB secondary Agriculture form 2 pg 73-75Certificate Secondary Agriculture F2 pg 41-44 Longhorn secondary Agriculture form 2 pg 91-93Teachers guide pg 67-68Gateway Agriculture revision paper 1 page 42-43Top mark Agriculture page 44 |  |
|  | **2-3** | Field practices | Tea Pruning | By the end of the lesson, the learner should be able toDescribe methods of pruning in teaDescribe plucking table formation | Describe methods of pruning in teaDescribing the plucking table formationNote takingDemonstration of plucking table formation | PegsRingsSchool farmChartsDiagrams in the students bookPhotographsfarms | KLB secondary Agriculture form 2 pg 76-80Certificate Secondary Agriculture F2 pg 54-57 Longhorn secondary Agriculture form 2 pg 93-96Teachers guide pg 67-68Gateway Agriculture revision paper 1 page 43 |  |
| **4** | **1** | Field practices | Coffee pruning | By the end of the lesson, the learner should be able toGive reasons for pruning coffeeDescribing the methods of pruning coffee | Giving reasons for pruning coffeeDescribing the methods of pruning coffee | FarmsPhotographsDiagrams in the students book | KLB secondary Agriculture form 2 pg 81-84Certificate Secondary Agriculture F2 pg 57-59 Longhorn secondary Agriculture form 2 pg 96-98Teachers guide pg 67-68Gateway Agriculture revision paper 1 page 43-44 |  |
|  | **2-3** | Field practices | Pruning in bananas Pruning pyrethrumEarthling upWeed controlPest and disease control | By the end of the lesson, the learner should be able toDescribe how to carry out the routine field practicesState the importance of each practices | Stating the importance of various practicesDescribing how to carry out the routine field practices |  | KLB secondary Agriculture form 2 pg 85-87Certificate Secondary Agriculture F2 pg 60 Longhorn secondary Agriculture form 2 pg 98-101Teachers guide pg 67-68Top mark Agriculture page 44 |  |
| **5** | **1** | Field Practices | Harvesting | By the end of the lesson, the end of the learner should be able toState the stage of harvesting Explain timing of harvestingDescribe the methods of harvesting | Stating the stage of harvestingExplaining timing of harvestingDescribing harvesting methods | CropsPhotographs in students bookDiagrams in the students bookSchool farm | KLB secondary Agriculture form 2 pg 73-75Certificate Secondary Agriculture F2 pg 60 Longhorn secondary Agriculture form 2 pg 101-104Teachers guide pg 68Top mark Agriculture page 44-45 |  |
|  | **2-3** | Field Practices | Post harvesting practices | By the end of the lesson, the leaner should be able toexplain post harvesting practicesstate importance of storagedescribe storage methods | explaining post harvesting practicesstating importance of storagedescribing harvesting methods | cropsphotographs in students bookdiagrams in the students bookschool farm | KLB secondary Agriculture form 2 pg 90-94Certificate Secondary Agriculture F2 pg 60-66 Longhorn secondary Agriculture form 2 pg 103-105Teachers guide pg 67-68Top mark Agriculture page 45 |  |
| **6** | **1** | Crop production (V) vegetables | Cabbages/kales | By the end of the lesson, the learner should be able toState importance of vegetablesDescribe the production of the vegetable crop from nursery to harvestingKeep crop production recordsMarket the vegetable produce | Stating importance of vegetablesDescribing vegetable productionKeeping crop production recordmarketing the vegetable produce | pesticidesherbicidesfertilizersphotographsstudents bookschool farmcrops | KLB secondary Agriculture form 2 pg 96-99Certificate Secondary Agriculture F2 pg 74-78 Longhorn secondary Agriculture form 2 pg 107-111Teachers guide pg 72-75Gateway Agriculture revision paper 1 page 47-48Top mark Agriculture page 45 |  |
|  | **2-3** | Crop production (V) vegetable | Cabbages/Kales | By the end of the lesson, the leaner should be able toState importance of vegetablesDescribe the production of the vegetable crops from nursery to harvestingKeep crop production recordsMarket the vegetable produce | Stating importance of vegetables Describing vegetable productionKeeping crop production recordsMarketing the vegetable produce | PesticidesHerbicidesFertilizersPhotographsDiagrams from the students bookCropsSchool farm  | KLB secondary Agriculture form 2 pg 96-99Certificate Secondary Agriculture F2 pg 60-66 Longhorn secondary Agriculture form 2 pg 107-111Teachers guide pg 72-75Gateway 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 toState the importance of tomatoesDescribe the production of tomatoes from nursery to harvestingKeep crop production recordsMarket the produce | Stating the importance of tomatoesDescribing tomatoes production Keeping crop production recordsMarketing the produce | PhotographsStudents bookSchool farmGarden tollsPesticidesHerbicidesfertilizers | KLB secondary Agriculture form 2 pg 100-106Certificate Secondary Agriculture F2 pg 67-71 Longhorn secondary Agriculture form 2 pg 112-115Teachers guide pg 67-68Gateway Agriculture revision paper 1 page 48-49 |  |
|  | **2-3** | Crop production (V) vegetable production | Carrotsonions | By the end of the lesson, the leaner should be able toState importance of carrots and onionsDescribe the production of tomatoes from nursery to harvestingKeep crop production recordsMarket the produce | Stating the importance of carrots & onionsDescribing their productionKeeping crop production recordsMarketing the produce | School farmGarden toolsPesticidesHerbicidesFertilizersphotographs | KLB secondary Agriculture form 2 pg 90-94Certificate Secondary Agriculture F2 pg 60-66 Longhorn secondary Agriculture form 2 pg 103-105Teachers guide pg 67-68Gateway Agriculture revision paper 1 page 42-43Top mark Agriculture page 48-49 |  |
| **8** | **1** | Livestock Health (I) Disease | Health disease | By the end of the lesson, the leaner should be able toDefine health and diseaseState the importance of livestock healthState the predisposing factors of diseases | Defining health and diseaseStating the importance of livestock healthStating the predisposing factors of diseases | Livestock speciesFarmStudents book | KLB secondary Agriculture form 2 pg 115-119Certificate Secondary Agriculture F2 pg 82-85 Longhorn secondary Agriculture form 2 pg 121-122Teachers guide pg 77Gateway Agriculture revision paper 1 page 52Top 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 toDescribe signs of sickness in livestockDescribe signs of good health in livestock  | Describing signs of sickness in livestockDescribing signs of good health in livestock | Livestock speciesFarm animalsDiagrams in the students bookFarm  | KLB secondary Agriculture form 2 pg 116-119Certificate Secondary Agriculture F2 pg 82-85 Longhorn secondary Agriculture form 2 pg 123-124Teachers guide pg 77Top mark Agriculture page 80 |  |
| **9** | **1** | Livestock Health (Disease) | Classification of livestock diseasesCauses of livestock diseases | By the end of the lesson, the leaner should be able toExplain the causes of livestock diseasesClassify livestock diseases | Explaining causes of livestock diseasesClassifying livestock diseases | Student bookChartFarm animalsTables in the students book | KLB secondary Agriculture form 2 pg 120-125Certificate Secondary Agriculture F2 pg 86-88 Longhorn secondary Agriculture form 2 pg 123-124Teachers guide pg 77Gateway 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 toDescribe the various methods of disease controlCarry out disease control measures | Describing methods of disease controlCarrying out disease control | Livestock tollsFarm animalsStudents bookDiagrams in the students book | KLB secondary Agriculture form 2 pg 125-128Certificate Secondary Agriculture F2 pg 89-91 Longhorn secondary Agriculture form 2 pg 126-127Teachers guide pg 78-79Top 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 toState the reasons why animals are handledExplain the reasons why animals are handled | Stating the reasonsExplaining the reasons why animals are handles | Farms animalsChartsDiagrams in students bookPhotographs | KLB secondary Agriculture form 2 pg 129Certificate Secondary Agriculture F2 pg 92 Longhorn secondary Agriculture form 2 pg 128-133Teachers guide pg 79-80Gateway Agriculture revision paper 1 page 54Top 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 toState various methods of handling livestockDemonstrate a caring attitude towards livestock | Stating various methods of handling livestockDemonstrating a caring attitude towards livestock0 | Diagrams in the students booksFarm animals photographsChartsStudents books | LB secondary Agriculture form 2 pg 129-132Certificate Secondary Agriculture F2 pg 95-96 Longhorn secondary Agriculture form 2 pg 128-133Teachers guide pg 79-80Gateway 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 toDefine parasitesExplain their effects on host | Defining a parasiteExplaining the effects of parasites | Farm animalsParasite specimen students bookPhotographs | KLB secondary Agriculture form 2 pg 133-134Certificate Secondary Agriculture F2 pg 98 Longhorn secondary Agriculture form 2 pg 134Teachers guide pg 83Gateway 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 toIdentify types of ticksDescribe the life cycle of the parasiteIdentify the livestock attackedState the control measures | Identifying types of ticksDescribing the life cycle of the parasiteIdentifying the livestock attacked stating the control measures | Parasite specimenPhotographsStudents bookFarm animals | KLB secondary Agriculture form 2 pg 138-143Certificate Secondary Agriculture F2 pg 98-102 Longhorn secondary Agriculture form 2 pg 135-139Teachers guide pg 83-85Gateway Agriculture revision paper 1 page 56-58Top mark Agriculture page 82 |  |
| **2** | **1** | Livestock Health (Parasites) | External parasitesTsetse flymites | By the end of the lesson, the learner should be able toDescribe the life cycle of parasiteIdentify the livestock attackedState the control measures | Describing the life cycle of the parasiteIdentifying the livestock attackedStating the control measures | Farm animalsParasites specimenStudents bookPhotographsDiagrams from the students book | KLB secondary Agriculture form 2 pg 134-135Certificate Secondary Agriculture F2 pg 103,104,107 Longhorn secondary Agriculture form 2 pg 139-141Teachers guide pg 83-85Gateway Agriculture revision paper 1 page 52 |  |

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|  | **2-3** | Livestock health (Parasites) | External parasitesLicekeds | By the end of the lesson, the learner should be able todescribe the life cycle of the parasiteidentify the livestock attackedstate the control measures | describing the life cycle of parasiteidentifying the livestock attackedstating the control measures | farm animalsparasites specimenstudents bookphotographsdiagrams from the students book | KLB secondary Agriculture form 2 pg 136-138Certificate Secondary Agriculture F2 pg 105-107 Longhorn secondary Agriculture form 2 pg 141-142Teachers guide pg 83-85Gateway Agriculture revision paper 1 page 56-58 |  |
| **3** | **1** | Livestock (Parasites) | Internal parasitesLiver flukes (Trematodes) | By the end of the lesson, the learner should be able toDescribe the life cycle of the parasitesIdentify the livestock attackedState the control measures | Describing the life cycle of the parasitesIdentifying the livestock attackedStating the control measures | Farm animalsParasites specimensStudent booksPhotographscharts | KLB secondary Agriculture form 2 pg 151-154Certificate Secondary Agriculture F2 pg 110-113 Longhorn secondary Agriculture form 2 pg 142-144Teachers guide pg 84-85Gateway Agriculture revision paper 1 page 56-58Top mark Agriculture page 83 |  |
|  | **2-3** | Livestock Health (Parasites) | Internal parasitesTape worms | By the end of the lesson, the learner should be able toDescribe the life cycle of the parasiteIdentify the livestock attackedState the control measures | Describing the life cycle of the parasiteIdentifying the livestock attackedStating the control measures | ChartsFarm animalsParasites specimensStudents bookPhotographsTables on the students book | KLB secondary Agriculture form 2 pg 144-148Certificate Secondary Agriculture F2 pg 108-110 Longhorn secondary Agriculture form 2 pg 144-146Teachers guide pg 83-85Gateway Agriculture revision paper 1 page 60Top mark Agriculture page 83 |  |
| **4** | **1** | Livestock health (Parasites) | Internal parasitesRound worms | By the end of the lesson, the learner should be able toDescribe the life cycle of the parasiteIdentify the livestock attackedState the control measures | Describing the life cycle of the parasiteIdentifying the livestock attackedStating the control measures | Farm animalsParasite specimenStudents bookphotographs | KLB secondary Agriculture form 2 pg 149-151Certificate Secondary Agriculture F2 pg 112-113 Longhorn secondary Agriculture form 2 pg 146-147Teachers guide pg 83-85Top mark Agriculture page 84 |  |
|  | **2-3** | Livestock health (parasites) | Principles of controlling EndoparasitesTreatmentDrug administration | By the end of the lesson, the leaner should be able toExplain factors to consider when controlling endoparasitesDescribe methods of administration of drugsState the rules that are followed in treatment of parasites | Explaining factors considered in controlling endoparasitesDescribing methods of drug administrationStating the rules followed in treatment of parasites | ChartStudents book | KLB secondary Agriculture form 2 pg 154-155Certificate 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 toDefine nutritionExplain major components of food | Defining nutritionExplaining major food components | ChartsChalkboardStudents book | KLB secondary Agriculture form 2 pg 158Certificate Secondary Agriculture F2 pg 115 Longhorn secondary Agriculture form 2 pg 148-149Teachers guide pg 83-85Top mark Agriculture page 85 |  |
|  | **2-3** | Livestock Nutrition | Food nutrientsWaterCarbohydratefats | By the end of the lesson, the leaner should be able todescribe the food nutrientsdescribe the feed nutrientsexplaining the functions of each feed | describing the feed nutrientsexplaining the functions of each feed | students booksamples of feed nutrients | KLB secondary Agriculture form 2 pg 159-161Certificate Secondary Agriculture F2 pg 115-116,118 Longhorn secondary Agriculture form 2 pg 149-152Teachers guide pg 81-82Gateway Agriculture revision paper 2 page 12Top mark Agriculture page 85-86 |  |
| **6** | **1** | Livestock production (II) nutrition | Feed nutrientsProteinsminerals | By the end of the lesson, the learner should be able toexplain the functions of each fooddescribe the food nutrients | explaining functions of each fooddescribing food nutrients | Feed specimenPhotographsFarm storesStudents book | KLB secondary Agriculture form 2 pg 163-165Certificate Secondary Agriculture F2 pg 117 Longhorn secondary Agriculture form 2 pg 157Teachers guide pg 89-92Gateway Agriculture revision paper 2 page 13Top mark Agriculture page 86 |  |
|  | **2-3** | Livestock Production (II) Nutrition  | Food nutrientsvitamins | By the end of the lesson, the learner should be able toState various types of vitaminsExplain the importance of vitaminsDescribe the food nutrients | Stating various types of vitaminsExplaining the importance of vitaminsDescribing the food nutrients | Food storePhotographs of animals with deficiencyFeed specimenStudents book | KLB secondary Agriculture form 2 pg 163-165Certificate Secondary Agriculture F2 pg 117 Longhorn secondary Agriculture form 2 pg 157Teachers guide pg 89-92Gateway Agriculture revision paper 2 page 13Top mark Agriculture page 86 |  |
| **7** | **1** | Livestock production (II) nutrition | Foods and foodstuffsroughages | By the end of the lesson, the leaner should be able tostate the classifications of animals food identify the food stuffsstate the characteristics of foodstuffs | Stating the classes of food stuffsIdentifying the food stuffsStating the characteristics of food stuffs | food stuffsfood store photographsStudents book | KLB secondary Agriculture form 2 pg 169-170Certificate Secondary Agriculture F2 pg 118-119 Longhorn secondary Agriculture form 2 pg 162-163Teachers guide pg 89-92Gateway Agriculture revision paper 2 page 14-15Top mark Agriculture page 86 |  |

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|  | **2-3** | Livestock production (II) nutrition | Foods and foods stuffsConcentratesProteinsCarbohydrateMixed succulents | By the end of the lesson, the leaner should be able toIdentify the food stuffsState their characteristics  | Identifying the food stuffsStating the characteristics of the food stuffs | Food stuffsStudents bookFood storephotographs | KLB secondary Agriculture form 2 pg 171Certificate Secondary Agriculture F2 pg 117 Longhorn secondary Agriculture form 2 pg 163-164Teachers guide pg 89-92Gateway Agriculture revision paper 2 page 15Top mark Agriculture page 86-87 |  |
| **8** | **1** | Livestock production (II) nutrition | Concept of rationingTerms used to express food values | By the end of the lesson, the learner should be able to State the terms used to express food valuesExplain the various terms | Stating the terms used to express food valuesExplaining the various terms | ChartsStudents bookChalk board | KLB secondary Agriculture form 2 pg 172-175Certificate Secondary Agriculture F2 pg 125 Longhorn secondary Agriculture form 2 pg 162-164Teachers guide pg 89-92Top 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 computationStating the methodsCompute a livestock station | Stating the methods Explaining the process of ration computationComputing livestock ration | geometric set Students bookChartsTables in the students book | KLB secondary Agriculture form 2 pg 176-179Certificate Secondary Agriculture F2 pg 126-128 Longhorn secondary Agriculture form 2 pg 166-169Teachers guide pg 89-92Gateway Agriculture revision paper 2 page 16-17Top 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 toDefine digestionDescribe the process of digestion generally | Defining digestionDescribing the process of digestion | ChartDiagrams in the students bookSpecimens of digestive systemsSchool farm | KLB secondary Agriculture form 2 pg 179-182Certificate Secondary Agriculture F2 pg 120-121 Longhorn secondary Agriculture form 2 pg 173-175Teachers guide pg 89-92Top 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 toDescribe digestion and digestive system of a pig | Describing digestion and the digestive system of a pigDrawing diagrams | ChartSpecimens of digestive systemsDiagrams in the students book | KLB secondary Agriculture form 2 pg 182-184Certificate Secondary Agriculture F2 pg 121-122 Longhorn secondary Agriculture form 2 pg 172-173Teachers guide pg 89-92 |  |
| **10** | **1** | Livestock production (II) nutrition | Digestion in poultry | By the end of the lesson, the learner should be able toDescribe digestion and digestive system of poultry | Describing digestion and digestive system of poultryDrawing diagrams | Diagrams in the students bookSpecimen of the digestive systemchart | KLB secondary Agriculture form 2 pg 185Certificate Secondary Agriculture F2 pg 123-124 Longhorn secondary Agriculture form 2 pg 170-172Teachers guide pg 89-92Gateway Agriculture revision paper 2 page 18-19Top 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 toState 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 bookSpecimens of digestive system chart | KLB secondary Agriculture form 2 pg 186-188Certificate Secondary Agriculture F2 pg 123-124 Longhorn secondary Agriculture form 2 pg 175-176Teachers guide pg 89-92Gateway Agriculture revision paper 2 page 13Top 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 toHandle livestock appropriately while feeding | Handling livestock appropriately  | Farm animalsChartsFarm structuresStudents bookDiagrams from the students book | KLB secondary Agriculture form 2 pg 129-132Certificate Secondary Agriculture F2 pg 128-131 Longhorn secondary Agriculture form 2 pg 176-178Teachers guide pg 89-92 |  |
| **12 END TERM THREE EXAMS** |