Dennis

SCHEME OF WORK AGRICULTURE FORM 4 2022

TERM I ENDARASHA BOYS

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| **WK** | **LSN** | **TOPIC** | **SUB- TOPIC** | **OBJECTIVES** | **T/L ACTIVITIES** | **T/L AIDS** | **REFERENCE** | **REMARKS** |
| **2** | 1 | POULTRY PRODUCTION | Composition of an egg. | By the end of the lesson, the learner should be able to:Identify parts of an egg. Describe the parts of an egg. | Drawing and labeling an egg.Breaking an egg to examine its internal structure. | Eggs,Chart ? parts of an egg. | KLB BK IV Pg 1-2Longhorn Bk IV Pg 1-2 |  |
|  | 2 | POULTRY PRODUCTION | Incubation of eggs.Egg candling. | By the end of the lesson, the learner should be able to:Define the term incubation of eggs. State characteristics of eggs for incubation.Describe candling of eggs. | Q/A and discussion. Practical activity.Observing internal structure of an egg. Make deductions from the observations. | eggsCardboard boxes, Torch, eggs. | KLB BK IV Pg 3-4Longhorn Bk IV Pg 2 |  |
|  | 3 | POULTRY PRODUCTION | Natural incubation. | By the end of the lesson, the learner should be able to:State merits & demerits of natural incubation.Identify management practices of an incubator. | Q/A & discussion. Exposition, discussion & oral questions. | Nesting box. | KLB BK IV Pg 5-6Longhorn Bk IV Pg 3-4 |  |
|  | 4 | POULTRY PRODUCTION | Artificial incubation. | By the end of the lesson, the learner should be able to:Outline conditions necessary for artificial incubation. | discussion,questions | artificial incubator | KLB BK IV Pg 7-8Longhorn Bk IV Pg 5-6 |  |
| **3** | 1 | POULTRY PRODUCTION | Management of an incubator.Merits & demerits of artificial incubation. | By the end of the lesson, the learner should be able to:Highlight management practices of an incubator.State merits & demerits of artificial incubation. | Brain storming; Probing questions; Brief discussion. |  | KLB BK IV Pg 8-9Longhorn Bk IV Pg 5-6 |  |
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|  | 2 | POULTRY PRODUCTION | Artificial brooding. Brooder & brooder management. | By the end of the lesson, the learner should be able to:Identify requirements for an artificial brooder. Outline management practices of a brooder. | Exposition; Probing questions; Brief discussion. Explanations; | Artificial brooder. | KLB BK IV Pg 10-11Longhorn Bk IV Pg 8-9 |  |
| 3 | POULTRY PRODUCTION | Rearing of growers, layers and broilers. | By the end of the lesson, the learner should be able to:Discuss rearing of growers, layers and broilers. | Exposition; Probing questions; Brief discussion. |  | KLB BK IV Pg 14Longhorn Bk IV Pg 12-13 |  |
| 4 | POULTRY PRODUCTION | Chicken rearing systems. - Free range rearing system. | By the end of the lesson, the learner should be able to:State factors considered when choosing a rearing system.Identify requirements for free-range system. State merits & demerits of free rage system. | Q/A & discussion. | free range system | KLB BK IV Pg 15-17Longhorn Bk IV Pg 13-15 |  |
| **4** | 1 | POULTRY PRODUCTION | - Fold system. | By the end of the lesson, the learner should be able to:Describe fold system. State merits & demerits of fold systems. | Q/A & discussion. | Chicken folds. | KLB BK IV Pg 17-18Longhorn Bk IV Pg 15-16 |  |
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|  | 2 | POULTRY PRODUCTION | * Deep liter system.
* Battery cage system.
 | By the end of the lesson, the learner should be able to:Describe the requirements for deep liter system of rearing chicks.State merits & demerits of deep liter systems.Describe the requirements for battery cage system of rearing chicks. | Q/A & brief discussion. Q/A & discussion. | deep littre system Battery cages. | KLB BK IV Pg 18-20Longhorn Bk IV Pg 16-18 |  |
| 3 | POULTRY PRODUCTION | Factors affecting egg production. Vices. | By the end of the lesson, the learner should be able to:Identify causes of vices such as egg eating and cannibalism and measures taken for the vices. | Discussion: causes and control of vices. |  | KLB BK IV Pg 23-24Longhorn Bk IV Pg 20-21 |  |
| 4 | POULTRY PRODUCTION | Stress. | By the end of the lesson, the learner should be able to:State causes of stress in birds.Outline stress management practices. | Q/A & discussion. | resource person | KLB BK IV Pg 22-23Longhorn Bk IV Pg 20-21 |  |
| **5** | MID TERM EXAMS AND BREAK |
| **6** | 1 | POULTRY PRODUCTION | Culling birds. | By the end of the lesson, the learner should be able to:Define the term culling. Give reasons for culling of birds. | Brain storming; Observing characteristics of a good / bad layer.Discussion. |  | Longhorn Bk IV Pg 20-21 |  |
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|  | 2 | POULTRY PRODUCTION | Marketing eggs and chicken meat.Raising of the young stock. | By the end of the lesson, the learner should be able to:State factors considered in sorting and grading eggs for fresh markets. Outline methods of killing a bird.Describe dressing of a bird?s carcass.Explain the importance of feeding calves on colostrum.Prepare artificial colostrum. | Teacher?s demonstrations & discussion.Topic review questions. Q/A: qualities of colostrum.Teacher?s demonstration: colostrum preparation. | eggsArtificial colostrums. | KLB BK IV Pg 24-27Longhorn Bk IV Pg 22-23 |  |
| 3 | POULTRY PRODUCTION | Methods of calf rearing. | By the end of the lesson, the learner should be able to:State merits & demerits of natural and artificial methods of calf rearing. | Q/A & discussion. |  | KLB BK IV Pg 29-30Longhorn Bk IV Pg 26-29 |  |
| 4 | POULTRY PRODUCTION | Weaning of calves. | By the end of the lesson, the learner should be able to:Describe early & late weaning of calves. | Q/A, exposition & discussion. | Chart - weaning guide. | KLB BK IV Pg 30-32Longhorn Bk IV Pg 29-30 |  |
| **7** | 1 | POULTRY PRODUCTION | Rearing replacement stock. | By the end of the lesson, the learner should be able to:Describe routine management practices for rearing replacement stock.Give reasons for carrying out varying routine practices. | Q/A: review common management routine practices.Discussion & Q/A. parasite control, castration, disease control, identification, dehorning. | video | KLB BK IV Pg 32-3Longhorn Bk IV Pg 30 |  |
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|  | 2 | POULTRY PRODUCTION | Calf housing. Routine management practices in poultry. | By the end of the lesson, the learner should be able to:Identify types of calf pens.Outline requirements for calf pens.Analyze routine management practices in poultry. | Exposition of new concepts.Q/A & explanations. Q/A: review routine management practices in livestock.Brief discussion. | Calf houses. video | KLB BK IV Pg 33-34Longhorn Bk IV Pg 31 |  |
| 3 | MILK AND MILKING | Factors affecting milk composition. | By the end of the lesson, the learner should be able to:Highlight factors affecting milk composition. | Brain storming; Probing questions; Discussion. |  | KLB BK IV Pg 36-38Longhorn Bk IV Pg 32 |  |
| 4 | MILK AND MILKING | Milk secretion and let-down. | By the end of the lesson, the learner should be able to:Describe the structure of the mammary gland.Describe the flow of milk from the alveoli to the teat canal. | Drawing and labeling diagram of the udder. Exposition of new concepts. | Chart-Structure of the udder. | KLB BK IV Pg 38-40Longhorn Bk IV Pg 33-34 |  |
| **8** | 1 | MILK AND MILKING | Clean milk. | By the end of the lesson, the learner should be able to:State characteristics of clean milk.Outline essentials of clean milk production. | Oral questions & brief discussion. | milk | KLB BK IV Pg 40-42Longhorn Bk IV Pg 34-35 |  |
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|  | 2 | MILK AND MILKING | Milking materials and equipment.Milking procedure and technique. | By the end of the lesson, the learner should be able to:List down necessary milking materials and equipment.State the purpose of the milking materials and equipment.Carry out milking using the correct milking procedure and technique.Outline rules observed when milking. | Brain storming; Probing questions; Discussion.Practical activity: milking by hand. Probing questions on milking rules. | Strip cup.Lactating cow, basic milking equipment. | KLB BK IV Pg 42-44Longhorn Bk IV Pg 35-37 |  |
| 3 | MILK AND MILKING | Dry cow therapy. Milk products. Marketing of milk and beef. | By the end of the lesson, the learner should be able to:Explain the concept of dry cow therapy.Name various milk products.Describe marketing of milk, beef & their by- products in Kenya. | Explanations & brief discussion. |  | KLB BK IV Pg 46-47Longhorn Bk IV Pg 38-40 |  |
| 4 | FARM POWER & MACHINERY. | Sources of power in the farm. | By the end of the lesson, the learner should be able to:Describe various sources of power in the farm.State merits & demerits of each source of power. | Q/A & discussion: animal power, wind power, waterpower, biogas, solar radiation, and fossil fuel. | solar,biogas, | KLB BK IV Pg 50-56Longhorn Bk IV Pg 42-53 |  |
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| **9** | 1 | FARM POWER & MACHINERY. | The tractor: Petrol & diesel engines. | By the end of the lesson, the learner should be able to:Identify major parts of the tractor petrol & diesel engines. | Exposition of new concepts, drawing illustrative diagrams. | Chart- petrol engine & diesel engine. | KLB BK IV Pg 57-58Longhorn Bk IV Pg 53-54 |  |
| 2 | FARM POWER & MACHINERY. | The four- stroke cycle engine.The two- stroke cycle engine.Structural and functional differences between petrol and diesel engines. | By the end of the lesson, the learner should be able to:Describe the four strokes in an engine State merits & demerits of the four-stroke cycle engine.Describe the two strokes in a cycle.State merits & demerits of two-stroke cycle engine.State structural and functional differences between petrol and diesel engines. | Exposition of new concepts, drawing illustrative diagrams. Exposition of new concepts,drawing; illustrative diagrams; Discussion. | Diagrams - The four- stroke cycle.two stroke engine diagram | KLB BK IV Pg 58-61Longhorn Bk IV Pg 54-55 |  |
| 3 | FARM POWER & MACHINERY. | Petrol fuel system of a tractor. | By the end of the lesson, the learner should be able to:Describe the petrol fuel system of a tractor.State maintenance practices of a petrol fuel system of a tractor. | Block diagram: petrol engine fuel system.Discussion. | diagram of a petrol fuel system | KLB BK IV Pg 63-64Longhorn Bk IV Pg 60-61 |  |
| 4 | FARM POWER & MACHINERY. | Diesel fuel system of a tractor. | By the end of the lesson, the learner should be able to:Describe the diesel fuel system of a tractor.State maintenance practices of a diesel fuel system of a tractor. | Block diagram: petrol engine fuel system.Discussion. | diagram of a diesel fuel system | KLB BK IV Pg 64-65Longhorn Bk IV Pg 60-61 |  |
| **10** | END OF TERM EXAMS |

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