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 1-2  Longhorn 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. | eggs  Cardboard boxes, Torch, eggs. | KLB BK IV Pg 3-4  Longhorn 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 5-6  Longhorn 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 7-8  Longhorn 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 8-9  Longhorn 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 10-11  Longhorn 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 14  Longhorn 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 15-17  Longhorn 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 17-18  Longhorn 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 18-20  Longhorn 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 23-24  Longhorn 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 22-23  Longhorn 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. | eggs  Artificial colostrums. | KLB BK IV Pg 24-27  Longhorn 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 29-30  Longhorn 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 30-32  Longhorn 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 32-3  Longhorn 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 33-34  Longhorn 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 36-38  Longhorn 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 38-40  Longhorn 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 40-42  Longhorn 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 42-44  Longhorn 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 46-47  Longhorn 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 50-56  Longhorn 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 57-58  Longhorn 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 58-61  Longhorn 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 63-64  Longhorn 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 64-65  Longhorn Bk IV Pg 60-61 |  |
| **10** | END OF TERM EXAMS | | | | | | | |

Dennis